

# Stand-alone Type

## **User's Manual**

D1 4/8/16CH DVR

D V R

**CAUTION!**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER WHILE THE DEVICE IS CONNECTED TO A POWER SOURCE. THE DEVICE'S INTERNAL PARTS CANNOT BE SAFELY REPAIRED BY USERS. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING**

TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



**NOTE:** This device has been tested and found to comply with the limits (what limits? You need to tell me) for Class A digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the device is operated in a commercial environment. This device generates, uses, and can transmit radio frequency energy, and, if not installed and used in accordance with the instructions in the user manual, may cause harmful interference with radio communications.



**FCC Caution:** To ensure continued compliance, use only shielded interface cables when connecting this device to computers or peripheral devices. Any changes or modifications (COMMENT: changes or modifications to what? not expressly approved by Provider could void the user's authority to operate this device.

This Class A digital device meets all the requirements of the FCC Regulations.



## LIMITATION OF LIABILITY

- This user manual is supplied “as is”, with no warranties, be it expressed or implied, including, but not limited to the implied warranties of merchantability, suitability for any exact purpose, or non-infringement on any third party’s rights.
- This publication may include technical inaccuracies or typographical errors. The manufacturer holds the right to introduce any changes to the information contained herein for any purpose, including, but not limited to improvements of the product and publications related to it, at any time, without prior notice.

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- Unauthorized disassembly, repair, or modification of the product by the user;
- Any problems or consequential inconvenience, loss, or damage caused by connecting this product to devices of the third parties;
- Any claim or action for damages brought by any photogenic subject, be it a person or an organization, due to invasion of privacy whereby the surveillance picture and/or saved data becomes public or is used for purposes other than surveillance.

## SAFETY INSTRUCTIONS

Read these instructions and keep them in a safe place for future reference.

- Please refer all servicing related to the installation of this product to qualified service personnel or system installers.
- Do not operate the device under conditions outside its recommended temperature, humidity or power source ratings.
- Place the unit on a flat surface not prone to vibration or impact.
- Use the appliance at temperatures between 0°C- 45°C (32°F -113°F) and humidity below 85%.
- The input power source for this appliance should be between 90-230V AC, 47-63 Hz.
- Install the unit away from heat sources such as radiators, heat registers, and stoves. Installation of the unit near consumer electronics, such as stereo receivers/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the aforementioned temperature range.
- **Handle hard disk drives with care.**

It is possible to damage hard drives if they are moved while their motors are still running. To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting it from a power source before moving the unit.

To avoid shock and vibration damage to the internal hard drive, do not move the unit while it is plugged in.

Protect hard disk drives from static electricity.

Do not stack hard disk drives or keep them upright.

Do not use an electric or magnetic screwdriver to repair hard disk drives.

- Do not impede the flow of air through the vents or place the unit in an enclosed area where the cooling vents are blocked.
- Protect the power cord from being stepped on or pinched, particularly at plugs and the points where they connect to the device.
- Do not drop metallic parts through slots, as this could permanently damage the device. If a metallic object falls through the slots, turn the power Disable immediately and contact qualified service personnel for service.
- Handle the device with care. Do not drop or shake it, as this may damage the device.
- Do not expose the device to moisture or try to operate it in wet areas. Do not install the unit in an area where condensation occurs. Do not operate with wet hands. Take immediate action if the appliance becomes wet. Turn the power Disable and refer servicing to qualified service personnel, as moisture may damage the appliance and cause electric shock.
- Do not use strong or abrasive detergents when cleaning the body of the device. If dirt is difficult to remove, use a mild detergent and wipe gently.
- Do not overload outlets and extension cords, as this increases the risk of fire and electric shock.
- Make a note of your settings and save them in a place where you can easily find them. This will help if it becomes necessary to change the system configuration, or if an unexpected failure or problem occurs.
- Distributing, copying, disassembling, reverse compiling, reverse engineering, and exporting the software provided with this product in violation of export laws, is expressly prohibited.

#### **CARING FOR THE ENVIRONMENT BY RECYCLING**



When this symbol appears on a product, do not dispose of it with residential or commercial waste.

##### **Recycling Electrical Equipment**

Do not dispose of this product with residential or commercial waste. Some countries and regions, such as the European Union, have established systems for collecting and recycling electrical and electronic waste items. Contact your local authorities for information about practices established for your region

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# 1.Your DVR at a Glance

## Product Overview

Model	4 CH	8 CH	16CH
Video Format	PAL/NTSC		
Video Compression	H.264 Baseline Compression		
Video Input / Output	BNC 4 Input / 1 Output	BNC 8CH Input / 1CH CVBS Output/1CH Spot Output	BNC 16CH Input / 1CH CVBS Output/1CH Spot Output
VGA Output	Up to 1280*1024		
HDMI Output*	Up to 1920*1080 (Please take actual machine model as quasi)		
Audio Format *	G.711		
Audio Input / Output*	RCA 4 Input / 1 Output	RCA 8 Input / 1 Output	RCA 16 Input / 1 Output
Alarm Type*	Motion detection, Sensor Input, Relay Output, Video Loss		
Sensor In / Out*	4CH Input / 1CH Output		16CH Input / 1CH Output
Display Frame Rate	Each Channel PAL:25 FPS, NTSC:30 FPS		
Playback Resolution	CIF/Half-D1/D1 @ Recorded frame rate		
Recording Speed – frames per second (FPS)	PAL: 100 FPS@CIF/HD1/D1; NTSC: 120 FPS @ CIF/HD1/D1.	PAL: 200 FPS@CIF/HD1/D1; NTSC: 240FPS@CIF/HD1/D1.	PAL: 400 FPS@CIF/HD1/D1; NTSC: 480FPS@CIF/HD1/D1.
Local Playback	4CH Playback( Realtime Playback as a full-screen for each channel)	8CH Playback(Realtime Playback as a full-screen for each channel)	4CH Realtime Playback
Recording Modes	Power-on Auto Record, Scheduled Record (Normal Record, Motion Detection, Sensor Trigger), Manual Record		
HDD Interface	SATA Interface : 1U SIZE, HDD*2 ; 1U small SIZE , HDD*1	Up to 2TB for each, SATA interface; 1U SIZE, HDD*2 or HDD*1+DVD+RW; 1U small SIZE , HDD*1;	Up to 2TB for each, SATA interface; 1U SIZE, HDD*2 or HDD*1+DVD+RW;
Network Protocol	TCP-IP/ DHCP/DDNS/PPPOE/E-Mail/NTP/ESMS		
Network Functions	Live Monitoring, Playback, Configuration, Backup, Mobile Phone Surveillance		
USB 2.0 Interface	Mouse / Portable Mobile HDD/ Flash Drive/ DVD Writer/ Firmware Upgrade		
Playback Options	Normal, Fast Forward, Slow Forward, Rewind, Single Step		
Network Interface	RJ45 10M/ 100M Ethernet Auto-Detect		
PTZ Protocol*	PELCO-P, PELCO-D		
Area Covered	Each channel supports coverage of four different areas		
Video Backup	AVI or h.264 from DVR and AVI over Network		
Power Adapter	DC 12V Adapter		
Power Consumption	10-15W		
Operating Temperature	-10℃~+40℃		
Operating Humidity	10%-90%		
Dimensions*	315(W) x 224 (D) x 51 (H) mm		435(W) x 340(D) x (H)56mm

\*Details may vary with different models



Congratulations on purchasing a state-of-the-art Digital Video Recorder (DVR). This DVR Disables the industry's best triplex functionality with video/audio recording, playback, and network capability, which can all be run simultaneously, streamlining the use of CCTV systems and boosting the security level of the home, business, or social venue where it is installed. Users can access live or recorded feed from standard or PTZ cameras directly at the location of the DVR installation, or anywhere in the world using web-browsers or a mobile phone\*. The video may be stored at a remote location for safety.

(\*Some limitations apply to Web- and phone-based features; please see the related sections for more detailed information.)

Users are advised to become familiar with the DVR's parts and accessories, as well as how to use the device as described in this instruction manual. For any questions that this guide does not answer, please contact a local vendor or a certified specialist.

In this manual, “-ch” and “CH” are used as abbreviations for “channel”, so, for example, “4-ch” means “4-channel” (i.e. a 4-channel DVR model), and “8-ch” means “8-channel”, and “16-ch” means “16-channel”.

**Note: Please don't connect the USB flash drives to the DVR before turning on the DVR or during restarting the DVR.**

## 2. Contents of the Package

- Digital Video Record (DVR)
- User manual
- Installation CD
- Remote control
- Power cord
- Mouse (varies by model)
- Hard disk drive (varies by model) (if you would like to use your own hard disk drive(HDD), please see [Appendix 2](#) for a list of compatible HDDs)

### 2.1 Getting Started Checklist

Before setting up this DVR, check to make sure the answer to all of the following questions is “yes”:

- a) Are the power and video in/out cables plugged in? Please see Section [3.5.1 Basic Connections](#) for more information.
- b) Has the HDD been properly installed and formatted? Please see Sections [3.5.2 Installing Hard Disk Drives](#) and [5.4.3 HDD Manage](#) for more information.

## 3. Hardware


### 3.1 Front Panel (Please take actual machine model as quasi)

The appearance of the front panel varies slightly with each different DVR model. The illustrations of front panels in the following images are examples for reference.



This subsection will explain the functions of each of the buttons and other components on the

front panel of the DVR.

-  /     **buttons**











Using these buttons, you can choose to display video on your monitor either as a full-screen view of each of the cameras individually (channels 1-4 or 1-8, depending on the model), or all channels simultaneously (.



- , , , ,  **buttons**



Use the arrow buttons to select menu items. Press the “Enter ()” key to confirm your choice, or enter the menu and sub-menus. On live view, the “Enter ()” key functions as a PTZ (pan, tilt, and zoom) control key.



- **Power LED, Record LED**






LED lights indicate the DVR’s connection to the power supply, recording status.

- **Menu ()**: Press this button to access the toolbar, hide the toolbar and exit from the menu or sub-menus.
- **Rewind ()**: Press this button to rewind the video during playback.
- **Play/Pause ()**: Pressing this button opens the video search function and the playback menu. When the playback mode is activated, press this button to play/pause playback.
- **Stop ()**: Press this button to stop playback.
- **Fast Forward ()**: Press this button to fast forward the video during playback.
- **REC ()**: Press this button to start or stop manual recording.
- **IR Window ()**: Infrared sensor for remote control.
- **USB Connector**: Use these USB ports to connect backup devices (i.e. flash drives, USB DVD recorders, etc.) or a mouse to the DVR.
- **Number 0-9 Buttons/)**: Using these buttons, you can choose to display video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 9), or you can press the “ ” button in combination with other buttons to select channels between Channels 10-16. For example, if you want to display Channel 12 in full-screen mode, press button “ ” and button “2”, then Channel 12 will be displayed full screen.

**NOTE: For a 4-CH DVR, press the “ ” button ten times or click “ ” on the toolbar, and this will switch the main menu between CVBS video output and VGA/HDMI video output. For the model with HDMI, the HDMI and VGA outputs share the same sources.**

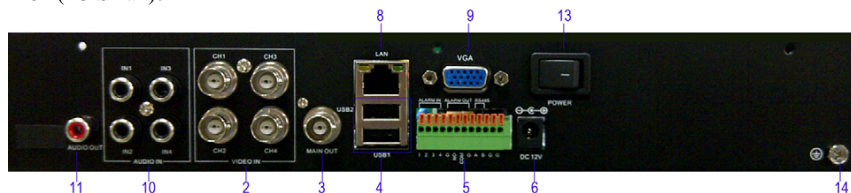
**For an 8-CH DVR, press the “ ” button ten times or click “ ” on the toolbar, and this will switch the main menu between CVBS video output and VGA video output, or this will switch the main menu between CVBS video output and HDMI video output. For some models, the HDMI and VGA outputs share the same sources.**

**For a 16-CH DVR, the default main menu output interface is VGA after turning on the device if “CVBS & VGA & HDMI output” or “VGA and HDM output” are all connected to the DVR synchronously; and the default main menu output interface is HDMI after turning on the device if “HDMI & CVBS” are connected to the DVR synchronously; user can press the “ ” button ten times to switch the main menu. For example, if the main menu output interface is VGA after turning on the device, press the “ ” button ten times for the first time and this will switch the main menu to HDMI video output; and then**

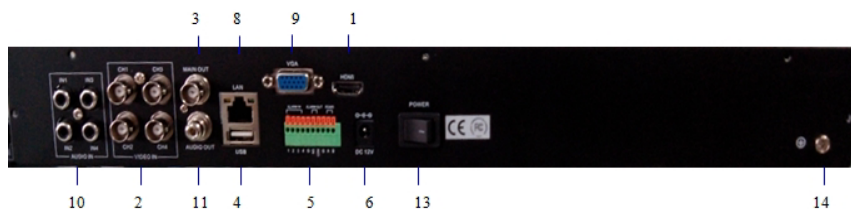
press the “” button ten times again, and it will switch the main menu to CVBS video output; altogether, the main menu will switch as “VGA output -> HDMI output -> CVBS output -> VGA output-> HDMI output...” after pressing the “” button ten times. Or click “-VGA” / “-VGA” / “-HDMI” on the toolbar, and this will switch the main menu among CVBS video output, VGA video output and HDMI video output.

**3.2 Back Panel** (The following are diagrams of ALL of the available DVR models; not all models have the same layout or features. For reference, find the diagram of the model you have purchased.)

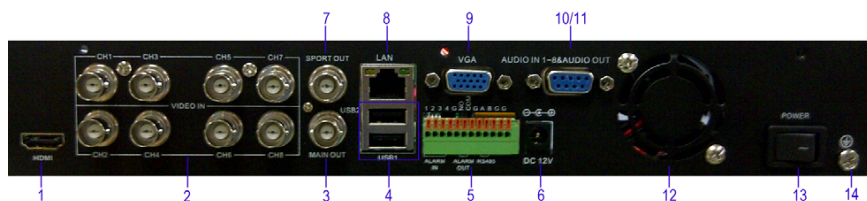
4-CH(1U Small):



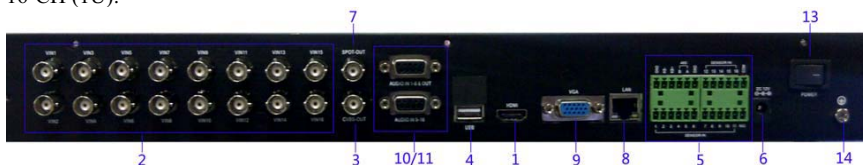
4-CH (1U)



8-CH(1U Small):



16-CH (1U):



1. **HDMI (8-CH/16-CH):** High-definition multimedia interface (HDMI) port. Some 4-CH models also have HDMI interface.

## 2. Video Input Connectors (Video IN 1-4/1-8/1-16)

4-/8-/16- channel video input connectors for connecting to analog video signal input, BNC (1Vp-p, 75Ω).

## 3. Video Output Connector

Video output for connecting the DVR to a monitor or TV, BNC (1Vp-p, 75Ω).

## 4. USB connectors

Use these USB ports to connect the mouse and backup devices (flash drives, USB DVD recorders) to the DVR.

Note: On some models, the USB port is on the side panel or on the front panel.

## 5. Alarm Input Connectors (4ch-/8ch-: ALARM IN CHANNELS 1-4; 16ch-: ALARM IN CHANNELS 1-16) /PTZ connectors

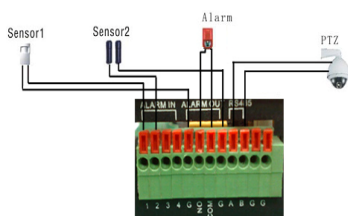
For connecting to external sensor devices

Each alarm has one input pin on the terminal block of the rear panel.

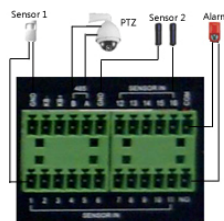
Connect the positive (+) output pins of the device to the input slots (“Alarm In”) on the DVR terminal block (4ch/8-ch: 1 – 4, 16-ch: 1-16).

Connect the ground (-) output pins of the device to the DVR ground slots (G). Multiple devices can be connected to one ground slot.

4-ch/8-ch



16-ch



Port functions:

Pin 1-G: Sensor 1 input;

Pin 2-G: Sensor 2 input;

.....

Pin 15-G: Sensor 15 input;

Pin 16-G: Sensor 16 input;

Pin NO-COM: Alarm Output (N.O);

Pin A, Pin B: RS-485A, RS-485B;

## Alarm Output Connectors (pin NO-COM)

For connecting the DVR to external alarm devices

#### **RS-485 Connector (pin A-B)**

For connecting the DVR to PTZ camera controls

#### **6. Power Input Socket (12V DC)**

#### **7. Spot Video Out-(For 8-CH/16-CH):** this enables users to auto-cruise each channel.

#### **8. Ethernet Connector**

RJ-45 10/100 Base-T Ethernet network

#### **9. VGA Connector**

For connecting the DVR to a VGA/LCD monitor

#### **10. Audio Input Connectors (AUDIO IN 1-4/1-8/1-16)**

4-CH/8-CH audio input connectors for connecting to audio signal input (4CH-RCA, 8CH/16CH-DB9).

#### **11. Audio Output Connector**

Single-channel audio output connector for connecting speakers (4CH-RCA, 8CH/16CH-DB9).

#### **12. Cooling Fan (4CH-optional)**

#### **13. Power Switch (4CH-optional)**

#### **14. Ground**

### **3.3 Remote Control**

Pressing the “enter” key on the remote control or the front panel of the DVR has the same function as left-clicking a computer mouse. The functions of the buttons on the remote control are identical to the functions the buttons with the same markings on the front panel of the DVR.



**Stop (■):** Press this button to stop playback.

**Play/Pause (▶/⏸):** Pressing this button opens the video search function and the playback menu. When the playback mode is activated, press this button to play/pause playback.

**(▲◀▼▶):** Move selected item in menu.

**Menu (MENU/ESC):** Press this button to access the toolbar, hide the toolbar, enter or exit from the menu, and enter or exit sub-menus.


**Lock (🔒):** If the password is enabled, press this button to log out of the system.


**Numerical Buttons:** Using these buttons, you can choose to display video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 9), or you can press the “” button in combination with other buttons to select channels between Channels 10-16. For example, if you want to display Channel 12 in full-screen mode, press button “” and button “2”, then Channel 12 will be displayed full screen.


**Rewind (◀◀):** Press this button to rewind the video during playback.

**Fast Forward (▶▶):** Press this button to fast forward the video during playback

**ENTER:** This button is used as the “enter” key in most circumstances (i.e. for selecting items from a menu). In live view, pressing this button will put the DVR in PTZ (pan, tilt, and zoom) mode.

**Spot View** (

**Mute ON/Mute Disable** (

**Quad** (

**REC** (●): Press this button to start or stop manual recording.

## 3.4 Mouse Control

As well as the remote control and the buttons on the DVR itself, you can use a mouse to operate the DVR. The mouse operates just like a mouse on a typical computer. To start, connect the mouse to the USB port in the back panel of the DVR; note that you can hot-plug the mouse.

Right-clicking	In live view, right-clicking will either display or hide the toolbar.
	From the main menu or a sub-menu, right-clicking will exit the current menu.
	In video playback, right-clicking will hide the control bar.
Left-clicking	In menu unlock mode, left-clicking on the SETUP icon in the tool bar will open the main menu.
	After entering the main menu, left-clicking will open sub-menus.
	By left-clicking, you can select values in edit boxes or pull-down menus. The system supports the input of Chinese characters, and other special symbols, numbers, and letters.
	On the playback interface, left-clicking can control the fast-forward function, the rewind function, the slow-motion function, frame-by-frame playback function, the normal play function, and can stop any of these processes or be used to exit from a mode or menu.
	Left-clicking can be used to access the color control bar, the volume control bar, and the screen control bar.
	From the main menu, sub-menus, or playback view, left-clicking “x” will exit the current menu.
	Left-clicking can also be used to select menu items.
Double-clicking left mouse key	In live view or video playback, double-clicking will maximize the screen.
Mouse drag	In the motion detection setting interface, you can left-clicking and then drag the frame to set the motion detection area.

## 3.5 Hardware Installation

It is recommended that the installations described below be carried out by qualified personnel.

### 3.5.1 Basic Connections

#### ■ Cameras

Connect each of the cameras’ outputs to the video input sockets in the rear panel of the DVR using the appropriate cables. The video input interface is a standard BNC

connector, 1Vp-p, 75  $\Omega$ . Keep the video signal cable away from strong electromagnetic and electric interference.

- **Audio Connection**

The audio input interface is a standard RCA socket, 2Vp-p, 600  $\Omega$ .

Keep the audio signal cable away from strong electromagnetic and electric interference.

- **Monitor**

Connect the main output connector to a monitor or a TV screen. Use a BNC-to-RCA converter, if needed, to work with the Audio/Video RCA cable.

- **Power**

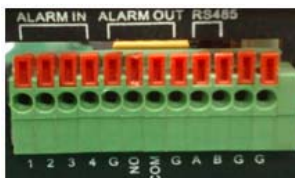
Use the 12V DC adapter supplied for connecting your DVR device to the power source.

- **Alarm Input / Output**

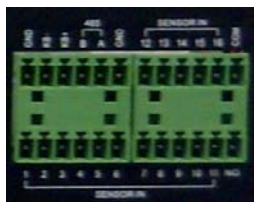
Connect the Alarm In 1-4/Alarm In 1-16 to N. O. (Normally Open) or N.C. (Normally Closed) alarm connectors to one ground connection. Connect the Alarm Out to the corresponding connections and ground accordingly.

For detailed description please see Section [5.2.5-IV I/O Alarm](#)

4ch/8ch



16ch



- **Ethernet**

For remote access to the video images from your cameras via LAN or Internet, connect a standard RJ-45 twisted-pair Ethernet cable to the Ethernet port.

- **USB**

Use this port for connecting the mouse, USB flash drives, USB portable HDDs, USB portable DVD Recorders to the DVR (for the list of compatible HDDs see [Appendix 2](#); for the list of compatible DVD Recorders see [Appendix 3](#)). The USB mouse can be hot plugged.

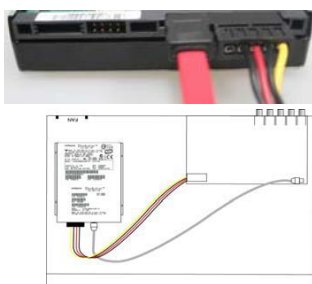
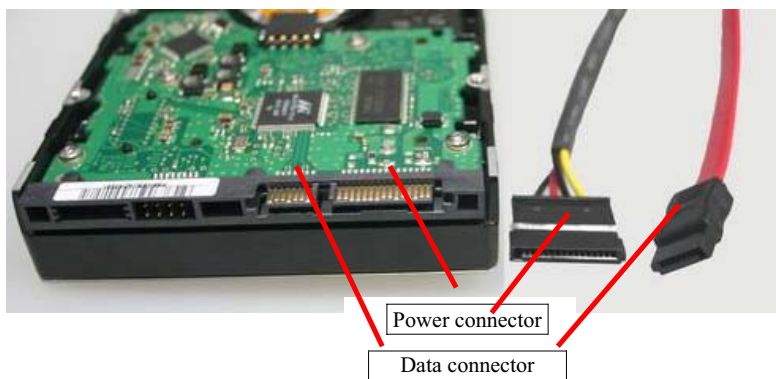


**NOTE:** The device only supports the FAT32 file system on USB devices.

### 3.5.2 Installing Hard Disk Drives (HDDs)



Before you can record onto your HDD, it must be formatted by the DVR system because standard PC formatting is not compatible with the DVR. It can be done through the “Maintenance” tab of the main menu in the toolbar. Refer to Section [5.4.3 HDD Manage](#) for a detailed description of this process. Depending on the size of your HDD, the formatting process can take up to several minutes.

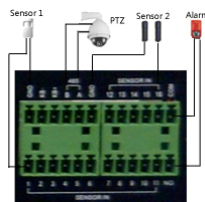
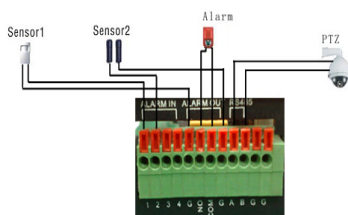


The HDD should be installed inside the DVR. Connect the HDD in according to the instructions, screwing the HDD into the HDD brackets or DVR base. All necessary cables are included with the DVR. If using a hard drive from another manufacturer, use instructions that came with the hard drive for specific details on proper wiring and installation. Connect the power cable to the appropriate socket, and connect the data cables to their corresponding ports.

For a list of HDDs tested and approved for compatibility with DVRs, see [Appendix 2](#).

### 3.5.3 PTZ Control Connections

Connect the PTZ (point, tilt, and zoom) control jacks to the corresponding RS485 A and B interfaces on the rear panel.



For a detailed description of PTZ protocols, baud rates and IDs, refer to the setup section in the PTZ manual.

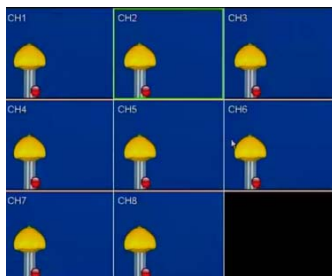
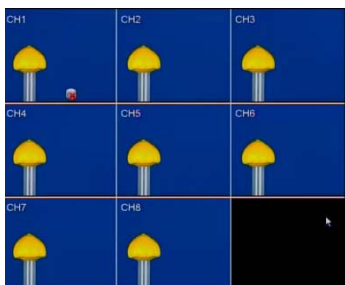


## 4. Getting Started and the Main Screen

Turn on the DVR and wait for the system program to load. If any of the following conditions are true.

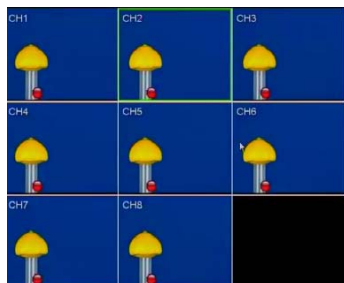
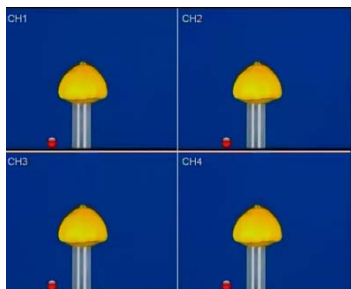
- User has not yet installed a hard disk drive into the device.
- The DVR cannot read the HDD.
- If a new HDD has been installed in the DVR but has not yet been formatted.
- There is not enough space on the HDD to record, it will display a red “X” icon (🔴) in the video preview interface. The HDD must be formatted in the DVR before use.

To format the HDD, first, from the main menu, select “Maintenance”. Then select “HDD manage” and lastly, select “format”. If the HDD is already installed, the default setting is for the DVR to start recording and a red dot icon (🔴) on the screen will indicate that it is functioning normally.



### 4.1 The Main Screen



The standard layout is four (or, depending on the device, nine or sixteen) windows evenly distributed over the screen. From the main screen, you can access menu options and switch among channel views, displaying either all channel feeds simultaneously or displaying a full-screen view of a single selected channel.



#### 4.1.1 Displaying a Single Channel

In the multiple-screen view, you can make a particular window active by left-clicking on it twice with a mouse, or navigating to it using directional buttons (◀, ▶, ▲, ▼). If an audio

output device is connected to this channel, you can monitor both audio and video feeds.

To display a full-screen view of a single channel, press the corresponding numerical or positional buttons (  /  ) on the remote control (the channel number is displayed in the top left corner of each window); alternatively, you can do so by left double-clicking on the desired window.

In order to return to the multi-screen view, either double-clicks on the screen again or press the single-/multiple-view button either on the remote control or the front panel of the DVR.

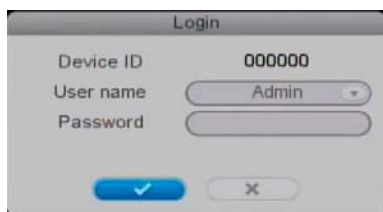
You can choose to display the status bar and or toolbar, or to hide them by right-clicking on the screen. These three options alternate in sequence.


## 4.1.2 Status Bar


Located at the bottom of the screen, the Status Bar can be displayed by pressing the “Menu” button or right-clicking anywhere on the screen.



## 4.1.3 Login DVR



In live view, press the “/” button twice or double-click the right key of the mouse to display the tool bar. The login window will appear if the password is enabled.

You can log in from the “Login” window as shown in the adjacent figure. Select a user name and password via numeric keyboard. You can access the main menu by pressing “” if the

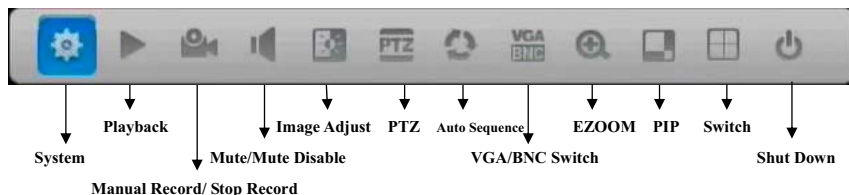
password is enabled.

**Note:**

1. The default password for Admin is “888888” and the default password for user1 is “666666”. For your convenience and system safety, you can change password of Admin and add another username.
2. The Device ID is used for connecting the Internet Explorer interface. For detailed instructions please refer to [Appendix 8](#).

## 4.1.4 Tool Bar (Please take actual machine model as quasi)







After logging in system, double-click the right-hand mouse button, and it will display the following toolbar.



The functions of the buttons in the toolbar are as follows:

## **System configuration**

### **Search and playback of recorded files**


 /  **MANUAL REC/STOP MANUAL REC:** Click the button “” on the tool bar or the button “” to start manual recording. Click the button “” on the tool bar or the button “” to stop manual recording.



### / **Mute Disable/Mute**


### **Adjust Color of Image**







### **Adjust Video Margin**


### **PTZ:** Opens the PTZ control menu.-(optional)



 **Auto Sequence:** Click “Auto Sequence” on the toolbar to enable auto- sequencing; this will display the channels with images in sequence: channel 1-channel 2-channel 3-channel 4-channel 1..... (for a 4-CH DVR) / channel 1-channel 2-channel 3-channel 4-channel 5-channel 6-channel 7-channel 8-channel 1..... (for an 8-CH DVR) / channel 1-channel 2-channel 3-channel 4.....-channel 14-channel 15-channel 16-channel 1..... (for a 16-CH DVR). Channels without images will not be displayed. To interrupt auto- sequencing, press any button or click the mouse while in auto-sequence mode.



 **VO SWITCH (video output switch):** For a 4-CH DVR, click “” on the toolbar, and this will switch the main menu between CVBS video output and VGA /HDMI video output, for the model with HDMI, the HDMI and VGA video outputs share the same source.





For an 8-CH DVR, click “” on the toolbar, and this will switch the main menu between CVBS video output and VGA video output, or this will switch the main menu between CVBS video output and HDMI video output. For some models, the HDMI and VGA video output share the same source.

For a 16-CH DVR, click “ ” / “ ” / “ ” on the toolbar, and this will switch the main menu among CVBS video output, VGA video output and HDMI video output.



 **EZOOM:** Click “EZOOM” to enter zoom mode, and then left-click and drag the cursor to select the area to be magnified. Right-click to exit zoom mode.



  **PIP 1\*1:** This feature displays the video from one channel in a small inset window, while another channel is displayed in full-screen view. Some models don't support this function currently.

  **PIP 1\*2:** This feature displays two channels in small, inset windows, while another channel is displayed in full-screen view. Some models don't support this function currently.

 /  \* /  /  \*: Pressing these keys switches split modes between quad-view and views with six, eight, nine, and sixteen windows (the number of windows depends on the model of the DVR being used).

### **Shut Down**

  **Restart:** Use this function to restart the device. **Please don't connect the USB flash drives to the DVR during restarting the DVR.**


  **Logout:** If the password is enabled, clicking “Logout” will log the user out of the

system and lock the DVR such that pressing keys or icons will have no effect on DVR activity until a user enters the password to disable the keylock.






See the following subsections for a detailed description of each of these functionalities.

## 4.2 Tool Bar Menu Options

### 4.2.1 System Configuration

 After pressing this button, a screen for configuring all system settings will appear. From this screen, management, video playback, files backup, information and maintenance can be adjusted. Refer to [Section 5. DVR Settings](#) for a detailed description of these settings.

#### Note:



1. If there is no  button in the sub-menu, in order to for changes to sub-menu settings to take effect, it is necessary to return to the “save” menu to press . Changes to the sub-menu settings will not be saved if you do not press  and exit the sub-menu immediately afterward.
2. If there is a  button in the sub-menu, users need to click the  button to save parameters in the current window.
3. A special feature of this DVR is that an explanation of each menu item will be displayed automatically when the cursor is moved over it.

### 4.2.2 Manual Recording





There are three ways of recording live video/audio feed from your cameras: [manual recording](#), [scheduled recording](#), and [continuous recording](#).

If scheduled recording is in conflict with manual recording, the manual recording will be processed first until stopped.

For a detailed description of scheduled recording, see [Section 5.2.4 Record Schedule](#).

In order to manually record a video/audio feed, select the  button from the “Tools” menu. Alternatively, you can press the “REC” button on the remote control or the front panel of the DVR. Pressing  or “REC” again will stop the recording process.

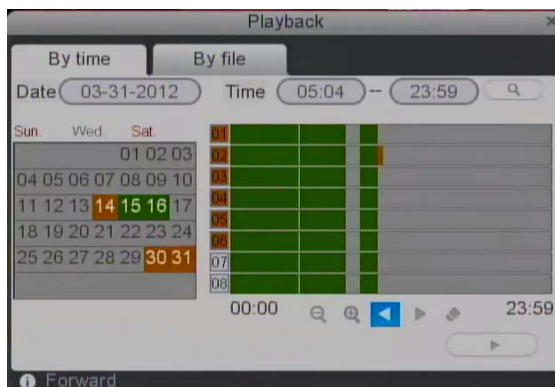
### 4.2.3 Video Playback







To start video playback, first move the cursor to  (the icon will be highlighted when selected) and left-click it to enter the settings menu; alternatively, press the  button to enter the settings menu. And left-clicking the  button will exit the current window, or move the cursor to the  button and press the “Enter” button to exit.

There are two methods of searching for recordings: by time and by file. For a 4-ch DVR, up to 4 channels can be selected for playback, and it will real-time playback as a full-screen mode for each channel with D1 decode. For an 8-ch DVR, up to 8 channels can be selected for playback, and it will real-time playback as a full-screen mode for each channel with D1 decode. For a 16-ch DVR, up to 4 channels can be selected for playback as real-time playback with D1 decode.





#### I. Playback by Time

In order to playback a certain video feed from a particular camera, you first need to indicate what time and which camera you wish to receive this information from.















Adjust the date and time to match the recording you are searching for. First, select “By time”, and next, input the time in the next field, and click “”. If you are using the remote or front panel, press “Enter” to input numbers directly to set the date and time, you can modify the time with the help of the , ,  and  buttons. Press [Enter] to confirm your selection. After selecting the day, please click “” to search for the recordings from that day.

The calendar on the above figure will show all the recordings in a given month. A green background on the calendar indicates normal recording, a red background indicates alarm recording, and a gray background indicates that there was no recording. Click any date in this frame to search by the recording status of that day, and the search results will be shown in the date frame.

Select the start and end time on the time line positioned against the available channels (you can choose which channel to view by selecting the checkbox next to each channel, the orange indicates that the channel will be selected). The start and end times of the recording you wish to view are indicated by two vertical lines on the time line. When you are using the remote and try to go to the desired line using directional buttons. If you would like to fine-tune the required time, you can use the   buttons to zoom in / zoom out of the time line. Alternatively, you can move along the time line using  and  buttons. Time values will be shown above the time line. Press “Enter” button once to confirm the time line, and press “Enter” button once again to cancel the time line.

**Using mouse:** left-click once to setup the start time, the subsequent left-click will indicate the end time, and left-click again will cancel the marked time.

**Using front panel:** you can navigate between fields using  and  buttons and modify the time with the help of the  and  buttons. When moves to the channel, press [Enter] to confirm or cancel your channel selection. If you would like to fine-tune the required time, you can use the   buttons to zoom in / zoom out of the time line. Using  and  buttons to switch pages when it zooms out too large.


After searching, using  and  buttons to move the time, and press [Enter] button to choose start time line. Press [Enter] again to popup the second time line as the end time line. Also can use  and  buttons to move the time line. Then press [Enter] to confirm the time. And press [Enter] to cancel the time.

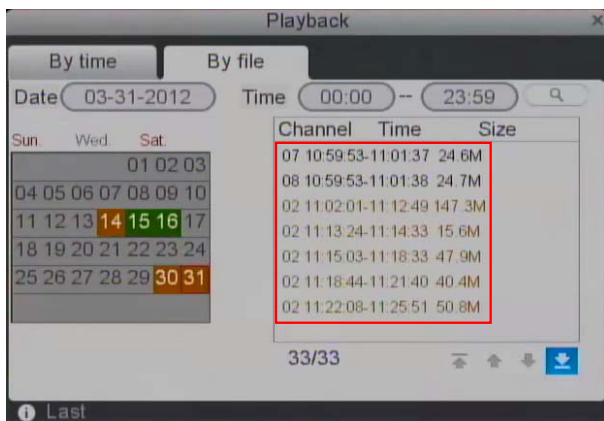
The available recordings will be represented by differently colored bars on the time line depending on the type of the recording (**Green:** common recording, **Orange:** motion detection

triggered recording, **Red:** motion detection triggered and alarm triggered recording, **Deep red:** alarm triggered recording, **Gray:** no recording).

To play the selection, press the Play button (or navigate to it and press **[Enter]** on the remote control or the front panel): the selected channels will playback in the standard view windows in their respective positions on the monitor screen.





## II. Playback by file

Input the date and time, click “” and the recording status on that date will be displayed. The calendar on the following figure will show all the recordings in a given month. A green background on the calendar indicates normal recording; a red background indicates alarm recording, and a gray background indicates that there was no recording. Click any date in this frame to search by the recording files of that day, and the search results will be shown in the file frame.





On the file list, “**Channel**” shows which channel the file was recorded under, “**Time**” shows the recording time, and “**Size**” is the size of this file (listed in MB). An orange list indicates this recording file is a motion detection recording file, a red list indicates this recording file is an alarm recording file, and a black list indicates this file is a normal recording file.

Move the cursor up or down to select the files, left-click to enter the playback menu. It will play the video from a single channel in full-screen view. When the selected files finish, the screen will return to the file list menu.




Using “” button to enter into the first page, using “” button to previous, using “” button to the next page, and using “” button to the last page.

### Note:

1. After moving the cursor up or down and selecting the files, left-click to enter the playback menu. It will play the video from a single channel in full-screen view.
2. If the “Record time superimpose” section is marked as “” under the “Record whole setup” section, it will show the date/time that the video was recorded when playing back recorded file; if it is marked as “”, it will not display the time.
3. When the selected files finish, the screen will return to the file list menu.


### III. Playback Control


In playback mode, users can view the playback control panel as well as the date and time of the file being played.

During playback, press “” to play the video in slow-motion; press “” to fast forward; press “” to rewind; press “” to pause and run frame-by-frame playback; press “” to exit from playback and return to the former menu.





The following are the functions of and options for the items in the playback control panel:


 Fast rewind: the available speeds are 2x, 4x, 8x, 16x, 32x and 64x.


 Slow forward: the available speeds are 1/2x, 1/4x and 1/8x.

 Play

 Pause/Frame-by-frame view


 Fast forward: the available speeds are 2x, 4x, 8x, 16x, 32x and 64x.


 E-zoom: While the video is playing normally, click this icon to enter zoom mode, and then left-click and drag the cursor to select the area to be magnified. Right-click to return to the normal mode.

 Video editing


 Backup

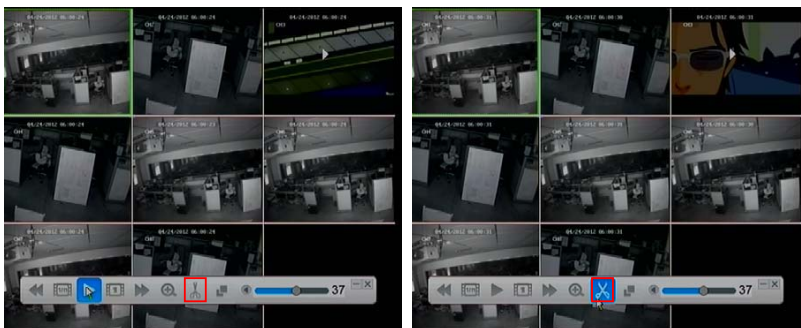
  32 Volume control

 Minimize the control panel.

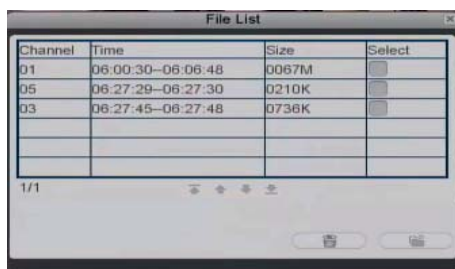
 Exit from playback and return to the former menu.

#### 4.2.4 Video editing

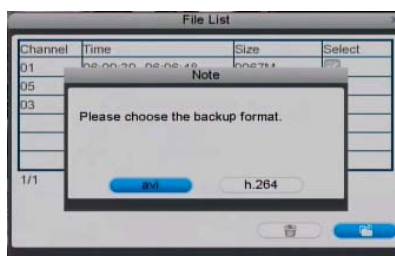
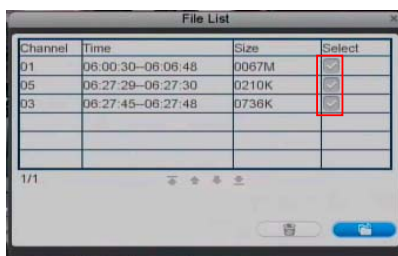
To playback first, and in playback mode user can edit a section of the video through the button “”.



During playback, user can choose the channel that he wanted to edit and the color of the selected channel's frame will change to green. Then click the button "⏸" in the playback control panel when user wanted to begin to edit the video, then the button will change to "✖", and during editing, the button "⏸" is disabled. When user wanted to end the editing, click the button "✖" again, and it will change to "⏸". Then insert the USB device and click the button "📁" to enter into the following interface.



On the file list, select the files, and click the button "📁" to enter the next window. Choose the file format ("avi" or "h.264"), and click the button "avi" or "h.264", and then the file will be saved into your USB device.



### Note:

1. User can edit 18 pieces of recorders at most, and the button "⏸" will change to "✖" go beyond the limit.



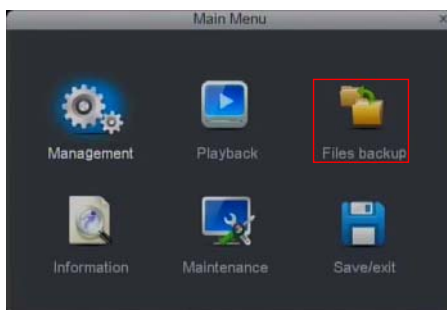
1. On the file list, click the buttons “←”, “→”, “⏮” and “⏭” to navigate pages, click the button “🗑” to clean up the list. Click the button “🚪” to exit from the window.
2. In addition, if user exited from the playback mode and the file list of the video editing will be cleaned away automatically.

## 4.2.5 Video Backup

“Setup”— “Files Backup” (the tab will be highlighted when selected) and press “Enter” to enter the “Backup” menu.

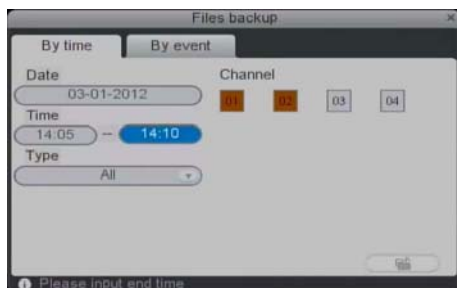
There are two methods of backing up for recordings, by time and by event. User can use USB devices for backup by inserting a USB device into the USB 2.0 port before backing up files. The DVR also supports USB OTG (USB On-the-Go).

**Note:** In standard English, a “U-DISK” would be called a “USB storage device” (the term “U-DISK” referred to in this manual and the software for this DVR is a direct translation of the Chinese word for “USB drive”).



### I. U-DISK Backup by Time

Enter “Files Backup” menu, select “By time” to access the option (as shown in the following figure). Adjust the date, time, type and channel to backup.




**[Date]:** Adjust the date user wanted to backup.

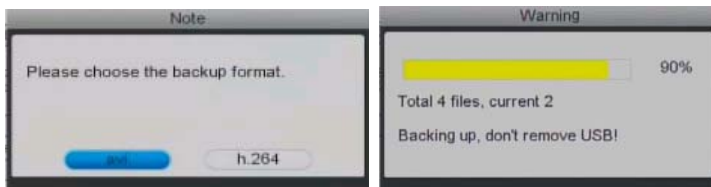
**[Time]:** Adjust the start time and the end time user wanted to backup.

**[Channel]:** Select the channels user wanted to backup. The orange indicates the channel has been chosen.

**[Type]:** The option indicates the type of recordings that user will back up. And options include

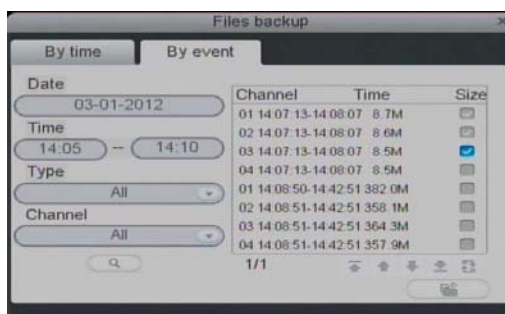
“All”, “Normal”, “MD” and “I/O Alarm”. If selecting “Normal”, only the normal recording videos will be backed up, and so on.

Click “” button to the next window to choose the format for backup. And “AVI” or “H.264” can be selected. Move the cursor to “AVI” or “H.264”, and press “Enter” key or left-click to backup.



## II. U-DISK Backup by event

Enter “Files Backup” menu, select “By event” to access the option (as shown in the following figure). Adjust the date, time, type and channel to search for.





**[Date]:** Adjust the date users want to search.

**[Time]:** Adjust the start time and the end time user wanted to search.

**[Type]:** The option indicates the type that user will search for. And options include “All”, “Normal”, “MD” and “I/O Alarm”. For example, if selecting “Normal”, only the normal recording videos will be searched for, and so on.

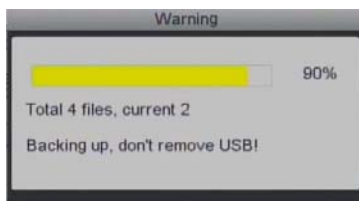
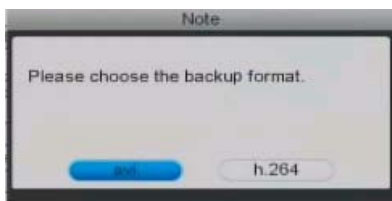
**[Channel]:** Select the channels user wanted to search. User can select only one channel or all the channels.

Move the cursor to “” and press “Enter” button. Or click “” button. The search files will be shown in the file frame (on the right).

On the file list, “Channel” shows which channel the file was recorded under, “Time” shows the recording time, and “Size” is the size of this file (listed in MB). An orange list indicates this recording file is an alarm recording file, and a black list indicates this file is a normal recording file.

From the file listing menu, recording files can be selected using the direction keys. Press “Enter” to confirm a selection. A checkmark (✓) will appear at the end of the filename after the selection has been made (pressing “Enter” again will cancel the selection, and the “✓” will disappear). Once the files have been selected, they can be exported by selecting “Backup”.

Click “←”, “→”, “⏮” and “⏭” to navigate pages, click “⏪” to reverse, and click “⏩” to enter the next window to choose the format for backup. And “AVI” or “H.264” can be selected. Move the cursor to “AVI” or “H.264”, and press “Enter” key or left-click to backup.



**Note:**


1. If the backup device being used does not have enough free space to save the file, a “not enough space” warning will appear.
2. The USB device can be removed immediately after the backup is complete.
3. If the system cannot recognize the connected devices, or if none are connected, a “No USB DISK!” warning message will appear.
4. If a USB drive is used to back up file, and the file format is AVI, the file can be played using Windows Media Player. If the file format is H.264, or if the file has been saved onto a DVD recorder and the file format is H.264, it can be played on home computers using “Hsplayer.exe.”
5. **If a mass storage device or a USB DVD recorder is used to back up file, user had better connect it over the USB port on the back panel. In addition, some models don’t support USB DVD recorder.**

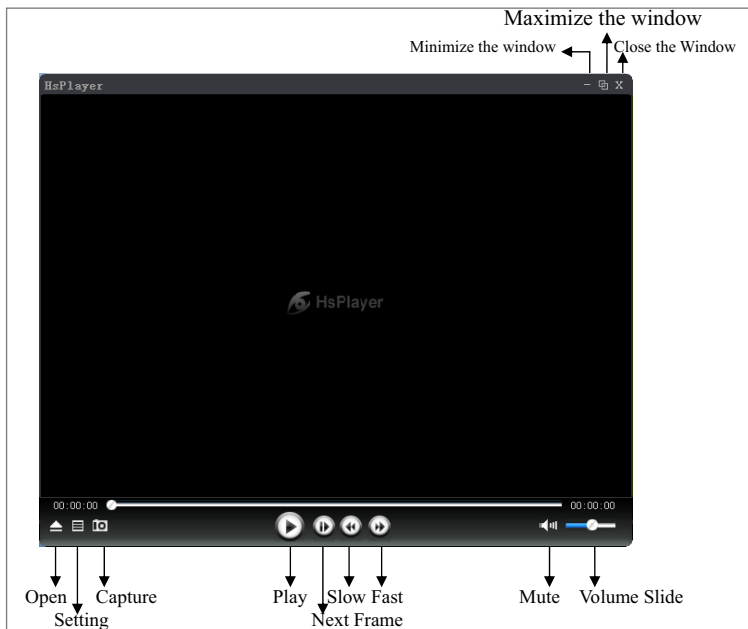
With the current models, external media as USB flash drives, portable USB HDDs, and USB DVD recorders can be connected to DVRs. For the list of DVD recorders tested and approved for compatibility, see [Appendix 3](#).




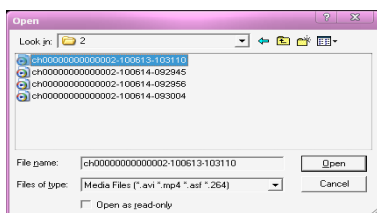
**The system only supports the FAT32 file system for USB flash drives and HDDs**



## 4.2.6 Playing Backed Up Videos on Home Computers

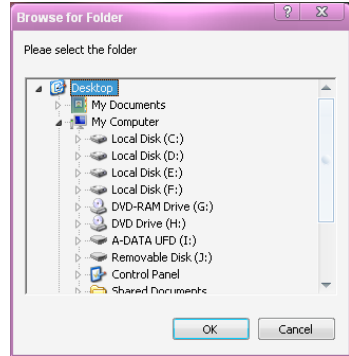
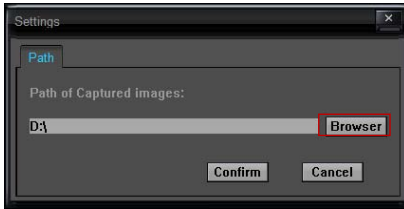
- 1) Copy the program “Hsplayer.exe” from the installation CD to the computer to be used. Double-click the “ Hsplayer.exe” icon to run the program.



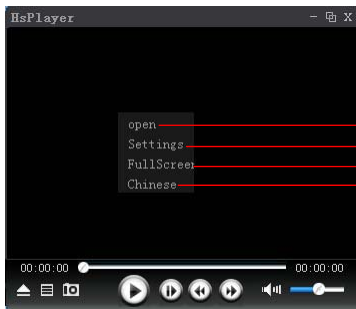
- 2) Click “” to open the video recorder in “\*.avi” or “\*.264” format. Select a file and click “Open” to play the file.



- 3) Click “” to capture a still picture. Then, click “” to enter the “Settings” menu to set up the path for saving captured images. Click “Browser” to change the path for captured images. For example, select the folder “Desktop” and click “OK” to save the path.



4) Right-click to open the shortcut menu window.



open	open the video recorder in “*.avi” or “*.264” format
Settings	to set up the path for saving captured images
FullScreen	Full Screen
Chinese	Language options (for changing languages)

**Note:** Files backed up on USB drives that those file formats are “AVI” can be played using Windows Media Player directly. Files backed up onto DVD recorders can be played using “Hsplayer.exe.”

## 4.2.7 PTZ Control

Chapter [5.2.8 PTZ](#) will explain how to set up PTZ parameters; this section will discuss how to operate the PTZ control.

### A. Connection

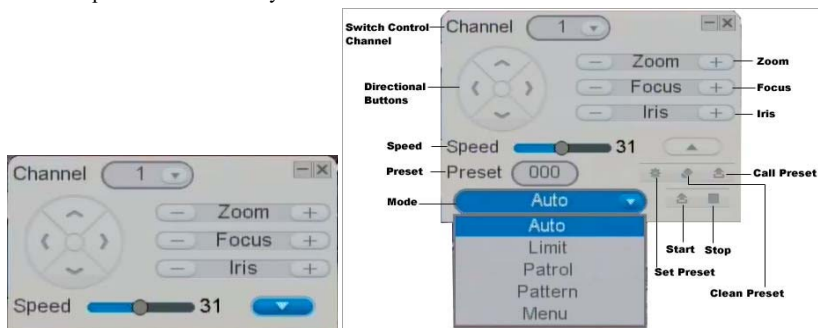
- 1) Connect the control line of the speed dome camera to the RS-485 interface of the DVR.  
Make sure that A (a.k.a. the “+”, “TxD+/RxD+” or “non-inverting” pin) and B (a.k.a. the “-”, “TxD-/RxD-” or “inverting” pin) are matched properly.
- 2) Connect the video line of the speed dome camera to video input of DVR.
- 3) Activate the speed dome camera.

### B. Preparation

- 1) Set the control address of the speed dome camera and select the relevant control protocol.
- 2) Switch the current frame to the corresponding display channel.

### C. Operation

Double-right-click to enter the toolbar menu under the real-time monitoring frame, and choose “PTZ” or press the “Enter” key to enter the control frame.



In the PTZ control frame, press the menu [PTZ/Menu] button or right click or click the [PTZ] button, and a “PTZ” icon will appear in the upper right corner of the screen.

**“PTZ Direction Control”** From the PTZ control frame, move the mouse to the upper, lower, left and right locations of the current frame, and this time, left-click and hold the mouse. Enter the control area of the corresponding location.

In “PTZ” mode, use the mouse or the “▲” “▼” “◀” “▶” buttons on the remote control or the DVR’s front panel to control detection of the speed dome. The “rewind” (◀◀) and “fast forward” (▶▶) buttons can also be used to adjust magnification.

**“SPEED”** Regulate the rotating step length of the PTZ by using the slide bar. This function is mainly for the controlling the speed. The larger the value, the faster the rotational speed will be, with possible values ranging from 0-63 (with a speed value of “0”, the camera will not rotate).

**“IRIS —, IRIS +”** This regulates the diaphragm.

**“FOCUS —, FOCUS +”** This brings objects into clear focus.

**“ZOOM —, ZOOM +”** Pressing this causes the lens to zoom in and out. Magnification can be changed by using the mouse wheel under the current frame.

**“MODE” There are several scanning modes to choose from:**

<Auto> controls the automatic scanning of the high-speed dome camera from left to right boundary after starting.

<Limit> controls the limit scanning of the high-speed dome after starting.


<Patrol> runs the patrol scanning of the high speed-dome after starting.

<Pattern> runs the pattern scanning of the high-speed dome after starting.

<Menu> after pressing this, the high-speed dome menu will appear after starting. After entering the high-speed dome menu, use “IRIS+” to confirm and use “IRIS-” to cancel. Left-clicking to move the cursor up or down.

**Note:** Operating functions need to be supported by head-end equipment and matched with the relevant protocols.

**“PRESET”** Adjust the direction and angle of the camera, input the corresponding preset point numbers, and then click “PTZ” to preset the point numbers of the menu.


Input the preset point number, and click “”, to automatically switch the camera to the corresponding location of the preset point.

The functions of these menu options may vary depending on the make and model of the PTZ camera being used. For a detailed explanation of the available options, refer to the user manual included with the PTZ camera.


## 4.3 Channel Status Display


The following status icons will appear in the upper right corner of each channel frame.

 This indicates that the channel has detected motion while in motion-detection mode.

 This indicates that the channel has detected that something has set Disable the sensor alarm while in alarm mode.

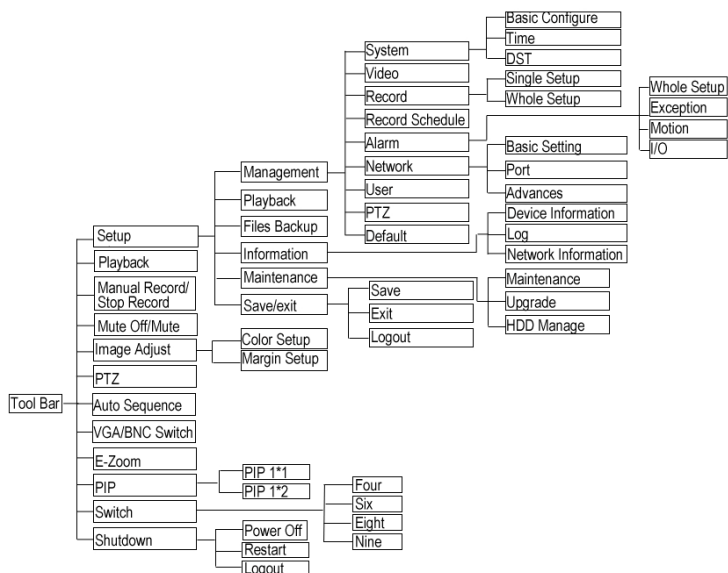
• This indicates that the channel is running in normal recording mode.

 This indicates that network disconnected.


 This indicates that IP conflict.

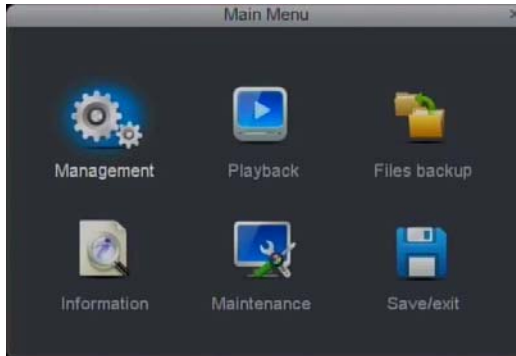
# 5. DVR Settings

## 5.1 Menu Tree



### 5.1.1 Menu Options

In order to modify/adjust the system configuration, it is necessary to enter the “Setup” menu; to do this, click the “Setup” icon () in the “Tools” menu.



After clicking the “Setup” icon, a dialog box with settings for all of the systems and options available for the DVR will appear. The settings are divided into six subsections: “**Management**”, “**Playback**”, “**Files Backup**”, “**Information**”, “**Maintenance**” and “**Save/exit**”. The following are detailed descriptions of these settings.

## 5.2 Management

“Setup”—“Management” (the tab will be highlighted when selected) and press “Enter” to enter the “Setup management” menu.

Setup management includes: “System”, “Video”, “Record”, “Record Schedule”, “Alarm”, “Network”, “User”, “PTZ” and “Default”.



### 5.2.1 System

“Setup”—“Management”—“System” (the tab will be highlighted when selected) and press “Enter” to enter the “System” menu.

System setup includes: “Basic configure”, “Time”, “Network time” and “DST”.

#### I. System—Basic Configure

Basic configure includes: “Language”, “Video Standard”, “Resolution”, “Sequent time”, “Volume”, “Transparent” and “Wizard”.





**[Language]:** Use this field to change the language of the DVR menu text and the on-screen display.

**[Standard]:** From this field, select the system output type that is consistent with camera input, i.e. PAL or NTSC.

**Note:** The device will restart if the camera output type is changed.

**[Resolution]:** The options are 1024x768(VGA) and 1280x1024 (VGA); for an 8-CH DVR, there is also a 1920x1080 (HDMI) option; for a 16-CH DVR, there are also 720P (50HZ), 720P(60HZ), 1080P(50HZ) and 1080P(60HZ) options; in addition, for some 4-CH and 8-CH models, there are also 720P (50HZ), 720P(60HZ), 1080P(50HZ) and 1080P(60HZ) options.

**Note:** The device will automatically restart when the VGA resolution is modified.

**[SPOT]:** Set sequential time for spot out from this field. Values can be set as “Disable”, “1Sec”, “3Sec”, “5Sec” and “10Sec”. —Optional, for 8-CH DVRs and 16-CH DVRs.

**[Sequent time (Sec.)]:** This refers to the sequencing time when auto-sequence is enabled. Values can be set from 1-300 seconds.

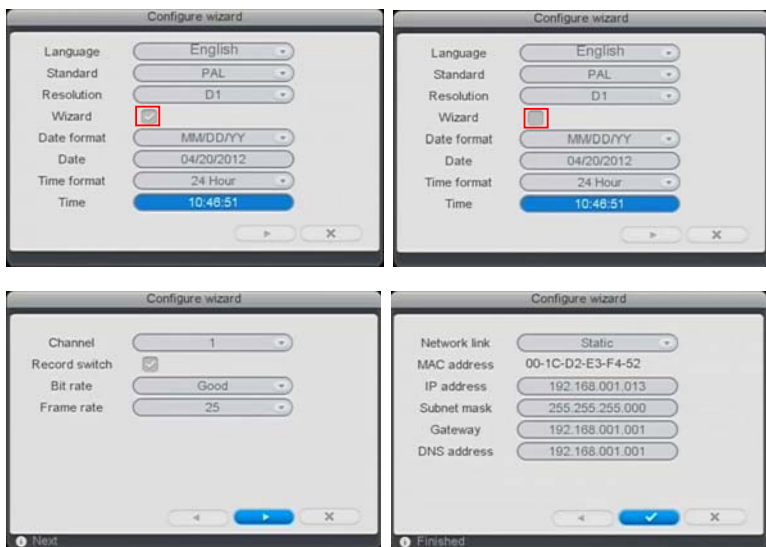
**[Volume]:** Press “◀” or “▶” or click the vertical line on the slide bar and drag the cursor to the left or to the right to adjust the volume, and click “✕” to exit.



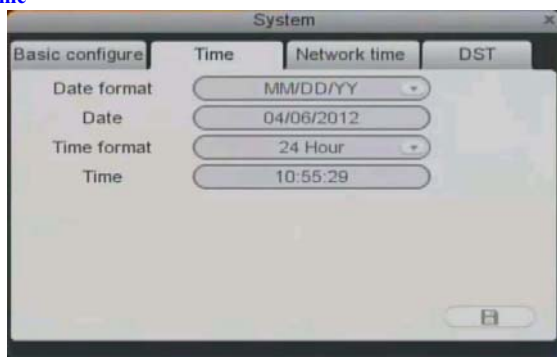
**[Transparent]:** Set transparency for menu display. Values can be set from 0-99. —Optional, for 4-CH DVRs and 8-CH DVRs.

**[Wizard]:** Enable or disable wizard. When wizard is enabled, user must configure parameters after the DVR restart every time, according to the following figures to setup parameters. Click “▶” to the next configure window, click “◀” to previous, and click “✔” to save. —Optional, for some 4-CH DVRs and 8-CH DVRs.

**Note:** User must disable “wizard” manually. On the menu “Configure wizard”, set the option “Wizard” to “✖”, otherwise the menu “Configure wizard” will display after the DVR restart every time.



## II. System—Time




**[Date Format]:** Press “Enter” to switch the date format, include YY/MM/DD, MM/DD/YY and DD/MM/YY.

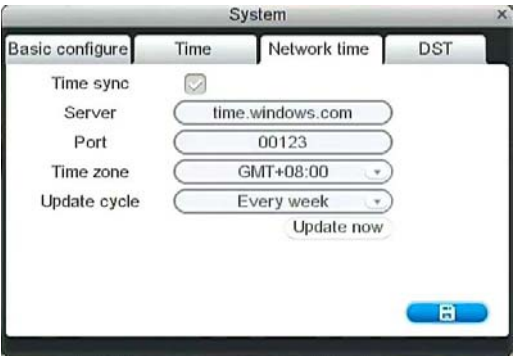
**[Date]:** Set the date using the numerical keypad.


**[Time Format]:** Press “Enter” to switch the time format from a 12-hour clock to a 24-hour clock and vice versa.

**[Time]:** Set the system time using the numerical keypad.

**Note:** It is necessary to click “” to save the changes after modifying the time and date.

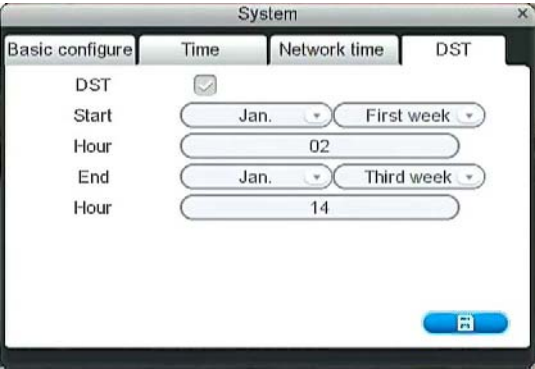
III. System—Network time synchronization




To enter the “Network Time” menu, when “☒” is selected in this field, network time sync is enabled. User can set the NTP Server host, the server port, the time zone and Update Cycle, then click “” to save the setting.

If user clicks “Update now”, the system time will proofread the time with the network server that you setup at once.

IV. System—DST



Daylight savings time. When “☒” is selected in this field, DST is enabled. Users can set the starting time and ending time of DST. For example, in the following screenshot on the above, the starting time is 02:00:00 on Sunday of the first week in January, and the ending time is 14:00:00 on Sunday of the third week in January.

**Note:** The changes to DST settings will not be saved if you exit “DST setup” without clicking “”.

5.2.2 Video

“Setup”— “Management” — “Video” (the tab will be highlighted when selected) and press “Enter” to enter the “Video” menu.



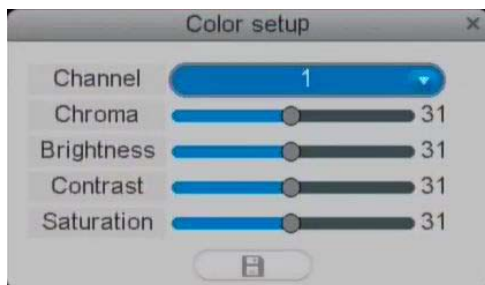
**[Channel]:** Use this field to select a channel to set up, or to modify its settings.


**[Channel Name]:** Users can modify the name of the camera for each channel. Note that the name of the camera for each channel must not exceed eight Romanized letters or four Chinese characters.


**[Name Position]:** Naming the location is optional. By pressing “Enter” users can switch between “Top left”, “Bottom left”, “Top right”, “Bottom right” and “Disable”.

**[Live]:** When this field is set to “☒” the selected channel can be viewed in live view mode; when “☐” has been selected, it cannot.

## I. Color Setup




Click “

Press “


35

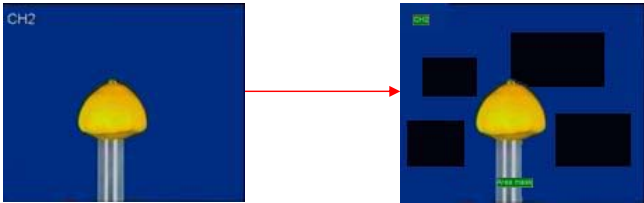
II. Video Margin



Click “” to enter the “Video Margin” menu, the entire video screen can be moved up, down, to the left, and to the right using this option.

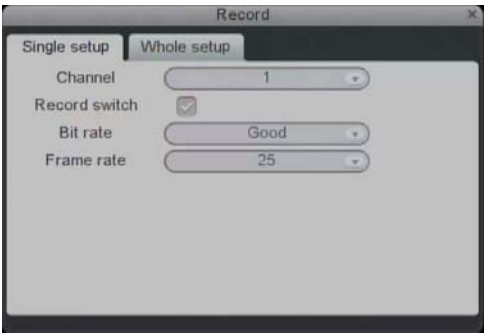
III. Area Mask

Click “” to enter the “Area Mask” menu, from this field, users can define areas for privacy masking. This device can provide up to four privacy masking areas for each channel.



5.2.3 Record

“Setup”— “Management” — “Record” (the tab will be highlighted when selected) and press “Enter” to enter the “Record” menu. Record setup includes: “Single Setup” and “Whole Setup”.



I. Record—Single Setup

Users can modify the parameters of each channel independently.

**[Channel]:** After clicking the “Channel” tab, users can modify the settings of the camera

connected to the selected channel. Alternatively, users can make the same change (or set of changes) to the settings of all of the cameras at once. To apply the change(s) to all available channels, first select “All” from the “Channel” field by pressing the arrow buttons; for example, the options include CH1, CH2, CH3, CH4 and ALL with 4-CH DVRs. Then make the desired changes and save them before exiting the menu.

**[Record Switch]:** “☒” indicates that the channel is enabled for recording.

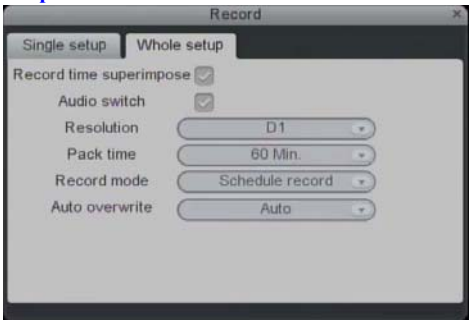
**[Bit Rate]:** There are three options: “GOOD”, “NORMAL”, and “LOW”, corresponding to “HIGHEST”, “HIGH”, and “NORMAL” data stream standards, respectively. The recording bit rate of each channel can be adjusted independently.

**[Frame rate]:** In this window, users can choose the recording frame rate (frames per second) for the current channel. The higher the recording frame rate, the more natural the movement seen in playback mode will seem. Select a recording frame rate depending on the how carefully the activity in the video needs to be monitored. It is possible to adjust each channel frame rate independently.

For the PAL video output format, the system’s default resolution is D1, and the system’s default frame rate is **25** frames per second with each channel; this means the system will record 100 frames per second with all channels running (if there are four channels that are all recording). Users can set the frame rate from **1 to 25** frames per second for each channel. The maximum value of total frames recorded per second with all channels is **100** frames with D1 resolution for 4-ch DVRs, and **200** frames with D1 resolution for 8-ch DVRs, and 400 frames with D1 resolution for 16-ch DVRs.



For the NTSC video output format, the system’s default resolution is D1 and the system’s default frame rate is **30** frames per second for each channel, which means the system will record 120 frames per second with all channels running (if there are four channels that are all recording). Users can set the frame rate from **1 to 30** frames per second for each channel. The maximum value of total frames recorded per second with all channels is **120** frames with D1 resolution for 4-ch DVRs, and **240** frames with D1 resolution for 8-ch DVRs, and 480 frames with D1 resolution for 16-ch DVRs.

**II. Record—Whole Setup**



User can modify parameters of all channels synchronously. Options include “Record time superimpose”, “Audio switch”, “Resolution”, “Pack time”, “Record mode” and “Auto overwrite”.

**[Record time superimpose]:** From this field, users can decide which information will be recorded onto the video as the OSD (On-Screen Display) string.

**[Audio Switch]:** “” indicates that the audio recording for all channels is enabled; “” indicates that audio recording is disabled.

**[Resolution]:** This indicates the setup resolution and code rate for recording. There are three options: D1, HD1 and CIF resolutions. The recording resolution of all channels can only be adjusted synchronously.

**[Pack Time]:** There are four options: 15 minutes, 30 minutes, 45 minutes, and 60 minutes. It will pack as the mode selected when alarm recording is disabled.

**[Record Mode]:** There are two recording modes: “Schedule record” and “Always record”.

**[Always record]:** In this mode, the DVR will automatically begin recording when it is turned on.

**[Schedule record]:** This setup function allows users to create a schedule for recording tasks throughout the week, so that only certain selected events are actually recorded on the HDD. For example, users can set up the system to record non-stop only during the business hours, and to run alarm-triggered recording at lunch time (which means no recording will take place unless an alarm-triggering event happens), and to run motion-detection recording with certain hours made more secure with combined alarm-triggered and motion-detection recording. Additionally, the recording schedule can include specific no-record time slots for when users are usually in the Disables (or other location where the camera is installed) alone at very early hours of weekday mornings. The schedule can be easily customized to the user’s needs.

**Note:** manual recording overrides all other recording settings and will take place until a user stops the recording or changes the recording mode.

**[Auto Overwrite]:** Options Include “Disable, Auto, 1 Hour, 3 Hours, 1 Day, 2 Days, 7 Days, 30 Days, and 90 Days”. If a user chooses “Disable”, the recording stops when the hard disk drive is full. Once the hard disk drive is full, it will not record again until “overwrite” is enabled. If a user chooses “Auto”, recording continues and overwrites previous recording when the hard disk drive is full. If a user chooses “2 Days”, recording on the hard disk will continue for no more than two days. After two days, the recording will be automatically overwritten. The “7 Days”, “30 Days” and “90 Days” options are similar to the “2 Days” option, except that instead of recording for two days before the automatic overwrite takes place, recording will continue for 7 days, 30 days, and 90 days, respectively before being overwritten.


## 5.2.4 Record Schedule

“Setup”—“Management”—“Record Schedule”(the tab will be highlighted when selected) and press “Enter” to enter the “Record Schedule” menu.







**[Channel]:** Users can select all channels or a single channel.



There are five modes for recording: “MD”, “I/O”, “Normal”, “MD, I/O”, “None”. Different colors are used to identify the different recording modes: Orange refers to “MD record”, green refers to “normal record”, gray refers to “no record”, deep red refers to “I/O record” and red refers to “MD, I/O record”.

To set up weekly schedules, click on the box of the recording status to be used (Alarm, Normal, or No record) and then click on each box in the schedule timeline that this recording status is to be applied to. See the “Record Schedule Setup” screenshot in the preceding figure. Each gray block represents one hour on a 24-hour clock, i.e. the first block(next to each day of the week) represents the hour from midnight-01:00 AM and the last block (below the “23” on the right hand side of the screen) represents the hour from 11:00 PM-midnight. After setting up the record schedule, click the “” button at the bottom of the screen to save it.

Alternatively, left-click and drag the frames of the boxes in the schedule timeline where you want to.

Another way to set up schedules is to create a schedule for one day of the week, and then use the “From” and “To” dropdown menus and  copy button settings to apply the setting from one day to another day or a series of up to all seven days of the week. To do this, first create a schedule for one day. Then, from the “FROM” dropdown menu, select the first day of the week that the schedule should apply to. Next, from the “TO” dropdown menu, select the last day of the week that the schedule should apply to, and click “” copy button. For example, to set a schedule where the DVR uses MD recording from 2:00 AM until 1:00 PM, and normal recording from 1:00 PM until 10:00 PM on Tuesdays, Wednesdays, Thursdays, and Fridays, the process would be as follows:

1. Click the orange box at the bottom of the screen to select “MD record.” Then, in the row of gray boxes next to the “TUE.” box, click all of boxes from the third box from the left to the box under the “12” at the top of the timeline(the box directly under the “12” should be selected) in order to select the hours between 2:00 AM and 1:00 PM.
2. Click the green box at the bottom of the screen to select “normal record.” Then click all of the boxes in the same row from the box immediately to the right of the box under the “12” at the top of the timeline to the third box from the right to select the hours from 1:00 PM-10:00 PM.
3. The preceding steps set a schedule for Tuesday, which can now be copied to Wednesday, Thursday, and Friday. To copy it, from the “FROM” field, first select “Tues.”
4. In the “To” field, select “Fri.” and then click “” copy button.
5. To save this schedule, click the “” button at the bottom of the screen.

Regardless of whether the schedule is set for each day individually or by copying one schedule to multiple days of the week, it is necessary activate it by clicking the “” button. Without clicking the “” the schedule will not take effect.

Scroll to  and press “Enter” to save new settings.

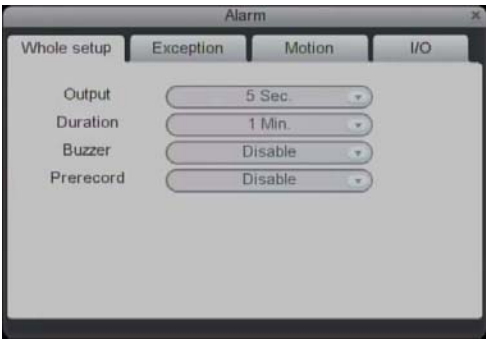


**When the alarm recording mode is selected, in order for the actual recording to take place, it is necessary to set the motion detection sensitivity and area. Refer to Section [5.2.5 Alarm-III Motion](#) for detailed instructions. When alarm recording is selected, make sure to set the alarm trigger settings beforehand.**



5.2.5 Alarm

“Setup”— “Management” — “Alarm” (the tab will be highlighted when selected) and press “Enter” to enter the “Alarm” menu.



I. Alarm—Whole Setup

User can modify parameters of all channels synchronously. Options include “Output”, “Duration”, “Buzzer” and “Prerecord”.

**[Output]:** This function sets the output time for an I/O alarm when an alarm is triggered. The options are: “Disable”, “5Sec”, “10Sec”, “30Sec” and “60Sec”. When the “Disable” option is chosen, the alarm will not be triggered by any activity.

**[Duration]:** This function sets the duration of the recording time after alarm recording is activated.

The options are “30Sec”, “1 min”, “2 min” and “5 min”.

**[Buzzer]:** This function sets the length of time that the buzzer will sound when the alarm is triggered. Options include: “Disable”, “5 Sec.”, “10 Sec.”, “30 Sec.” and “60Sec.” If the “Disable” setting is selected, the buzzer will not be triggered by any activity.


**[Prerecord]:** This sets the duration of the recording time before the alarm is activated. The options for prerecording time are: “Disable” and “Enable”.

II. Alarm—Exception



To access the “Exception Alarm” page and a dialog window where the buzzer and I/O output for HDD Full, HDD Loss and Video Loss can be set will appear.

**[HDD remainder]:** The buzzer alarm and I/O output alarm can be set when there is little space left on the HDD for new recordings. Options include: “Disable”, “1G”, “5G”, “10G”, “1 hour”, “5 hours”, “10 hours”, and “20 hours.”

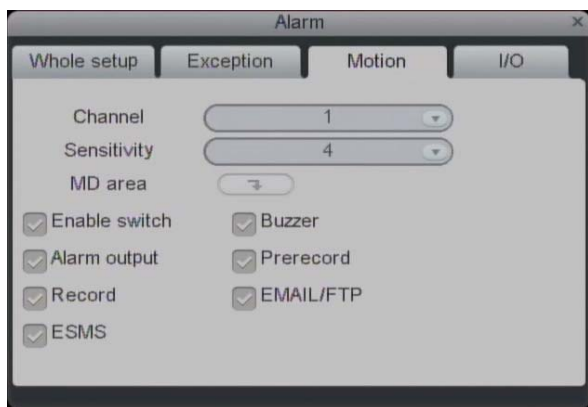
**[HDD Loss]:** When the “☒ ” setting has been selected for HDD Loss, the relevant alarm will be triggered if there is no HDD connected to the DVR and a “ ” icon will be displayed in the lower left corner of channel 1 while in live view mode.

**[VIDEO Loss]:** When “☒ ” setting has been selected for Video Loss, the relevant alarm will be triggered when one or more channels lose video input.

**Note:** If the [buzzer](#) mentioned in Section the [Alarm—Whole Setup](#) mentioned in Section [5.2.5](#) are in the “Disable” setting, they will not be triggered by any kind of activity.

### III. Motion

To access the “Motion Detection” menu and the dialog window where Sensitivity, MD Area, Enable Switch, Buzzer, Alarm Output, Prerecord, Record, Email/FTP and ESMS settings can be set will appear.





**[Channel]:** In this field, select the channel to be set up.

**[Sensitivity]:** Each channel has a specific sensitivity setting; there are eight levels, with “1” being the highest level of sensitivity; press “Enter” to adjust the level.

**[MD Area]:** Sometimes, it is necessary to have some regions in the camera’s coverage area enabled with the motion detection feature, while other regions in the same coverage area do not require this functionality. This may be handy when, for example, the camera covers the road and an adjoining area. While it would be useful to have the motion detection enabled on the area near the entrance to a building, it would most likely not be helpful to see it triggered every time a car or truck passes by on the nearby road. Each channel has a specific regional motion detecting setting.





To enter the “Regional Setting” menu, move the cursor to “setting” and then press “Enter.” When viewing the selected channel’s coverage area using the MD Area option, the blue area is where motion detection is activated, and transparent block is the area where motion detection is not activated.


Press the direction keys on the remote control to move the cursor along the small pane: the position of cursor is indicated by a green frame. Press “Enter” to select or cancel motion detection in this small pane. When the setup is finished, press “/” or right click to return to the save menu and click “” to save the settings.


**Note:**


Mouse operation: Left-click and drag the frame to set up the region for motion detection.


**[Enable Switch]:** Each channel has a corresponding channel switch. “” indicates that the motion detection alarm of the selected channel is enabled.


**[Buzzer]:** “” indicates that the buzzer will sound if it has been triggered by motion.

**[Alarm Output]:** “” indicates that an alarm will be activated if it has been triggered by motion.

**[Prerecord]:** “” indicates that the relevant channel will prerecord for 10 seconds if it has been triggered by motion.

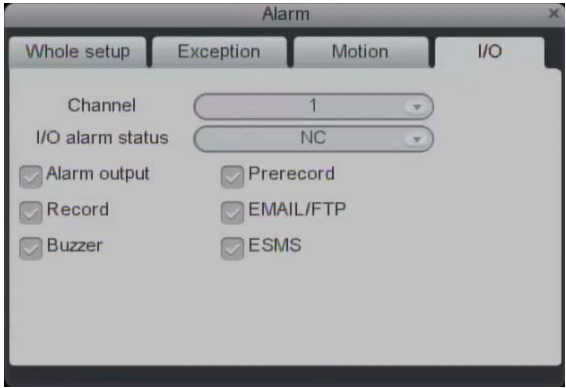
**[Record]:** “” indicates that the selected channel will record if it has been triggered by motion.

**[Email/FTP]:** “” indicates that a picture of selected channel will be sent to the pre-registered email address and FTP if an alarm has been triggered by motion.

**[ESMS]:** “” indicates that an ESMS message will be sent to the pre-registered phone number when a motion-detection alarm has been triggered.

**IV. I/O Alarm**

To access the “I/O Alarm” menu, a dialog window where the I/O Alarm Status, Alarm Output, Record, Buzzer, Prerecord, Email/FTP and ESMS settings can be set will then appear.



**[CHANNEL]:** From this field, select the channel to be set up.

**[I/O Alarm Status]:** Each channel corresponds to an I/O status (see the following status explanations), which means that when an alarm is triggered, it will activate the corresponding channel to start alarm recording.

**I/O status types:**

**NO:** “Normally open”: It means that in its normal state, the sensor is kept under constant low voltage. If the output voltage changes from low to high, then the alarm will be triggered.

**NC:** “Normally closed” (also referred to as “normally connected”): The normal state of the sensor is under constant high voltage. If the output voltage changes from high to low, then the alarm will be triggered.

**Disable:** Set the I/O to “Disable” if external sensor alarms are not in use.

**[Alarm Output]:** ☒ indicates that an alarm will sound if it had been triggered by sensor.

**[Record]:** ☒ indicates that the relevant channel will record if it has been triggered by activity detected by the sensor.

**[Buzzer]:** ☒ indicates that the buzzer will sound if it has been triggered by activity detected by the sensor.

**[Prerecord]:** ☒ indicates that the relevant channel will prerecord for 10 seconds if it has been triggered by activity detected by the sensor.

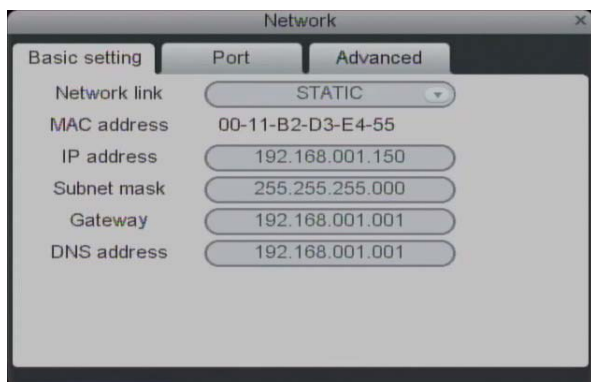
**[Email/FTP]:** ☒ indicates that the picture of relevant channel will be sent to the pre-registered email address and FTP if it has been triggered by activity detected by the sensor.

**[ESMS]:** ☒ indicates that an ESMS will be sent to the pre-registered phone number when an I/O alarm has been triggered.

**Note:** If the “DISABLE” setting is selected for any of the preceding options, the relevant alarms and notifications will not take place, regardless of activity near the sensor.

## 5.2.6 Network

“Setup”—“Management”—“Network” (the tab will be highlighted when selected) and press “Enter” to enter the “Network” menu. Options include “Basic Setting”, “Port” and “Advanced”.



## I. Network—Basic Setting

**[Network Link]:** There are three options: “Static”, “DHCP” and “PPPOE”.

After selecting an Internet connection setting - such as static, DHCP or PPPOE – and allocating a port, users can access the DVR remotely via the Internet.

- 1) If static allocation has been selected, it is necessary to set up an IP address, a subnet mask, a gateway, and a Web port.

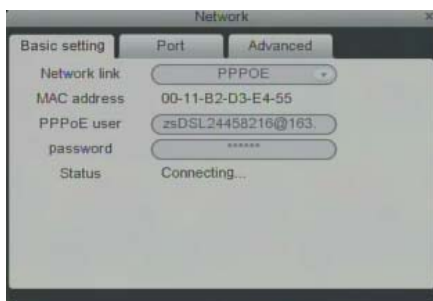
**[IP Address]:** After pressing “Enter”, enter the IP address in this field.

**[Subnet Mask]:** After pressing “Enter”, input numbers for the subnet mask.

**[Gateway]:** After pressing “Enter”, enter numbers for the default gateway.


**[DNS Address]:** After pressing “Enter”, input numbers for the subnet mask in this field.

- 2) If PPPOE has been selected, it is necessary to enter the PPPOE username and password provided by the ISP.



**[PPPOE user]:** Enter the username provided by the ISP.

**[Password]:** Enter the password provided by the ISP.

Return to the “save” menu, click “” and the system will automatically reboot. After rebooting, the device will save the username and password, and set PPPOE as the default network type. The IP address will be automatically configured as a dynamic IP address in the Wide Area Network (WAN).

- 3) If DHCP is selected, the server will allocate a DVR IP address automatically.

**NOTE:** Save the IP address when selecting DHCP and the DVR will automatically connect with the server. It will allocate an IP address when the connection is stable, and this address will be displayed on the interface.

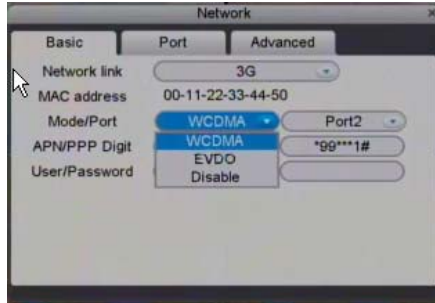
- 4) If 3G is selected, insert the 3G card, and set up the corresponding parameters, after the system rebooting, the IP address will be automatically configured.

### How to use “3G wireless access”

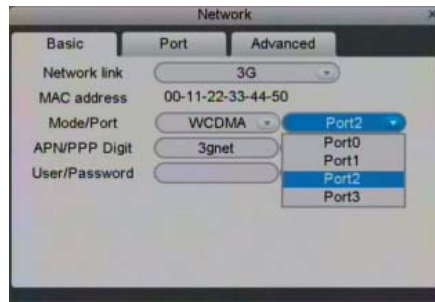
1. Insert your available 3G wireless card( WCDMA or EVOD)
2. To access the “Network basic” menu, in the network link, select “3G”, and set up the corresponding parameters.

Different equipment need to setup different parameters:

**Mode:** depending on the type of your wireless card, select “WCDMA” or “EVOD(CDMA2000)”.

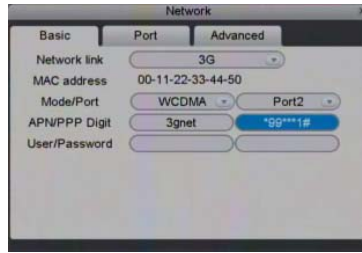


**Port:** You should choose the port according to the model of your equipment. Different model maybe has different port. For example, ZTE MF190 using Port2, HUAWEI E173 using Port0;



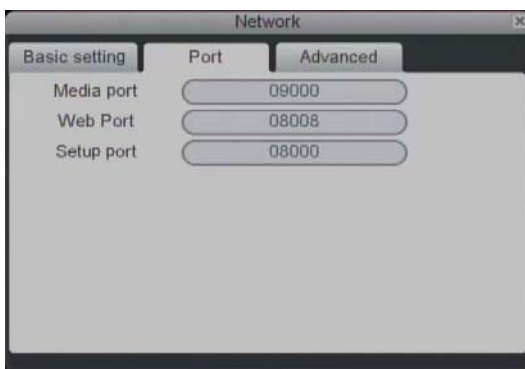
**APN/ PPP Digit:** APN is the name of your ISP. The default value is “3gnet” (needn’t changing). PPP Digit is the dial-up number. The default value is “#777” (for EVOD) or “\*99\*\*\*1#” (for WCDMA) (needn’t changing);

**User/Password:** your dial-up account user name and password. The default value is “card”/”card” (for EVOD) (needn’t changing), or is empty (for WCDMA) (needn’t changing)



3. Save the parameters, and the system will reboot, after rebooting, the IP address will be automatically configured. Then you can access the DVR remotely via the IP.

## II. Network—Port



**[Media Port]:** Port for the private protocol of the DVR and computer; the default is “9000”. If this port is being used by other server, use another free port for the DVR.

**[Web Port]:** Sets up a Web browser port via HTTP. The default port number is “8090”, but the specific number is model-dependent. If Administrator changes the Web port, to, for example, “8088”, the port number should be added after the IP address, i.e. `http://192.168.15.145:8088` should be entered as the IP address of the Web browser.

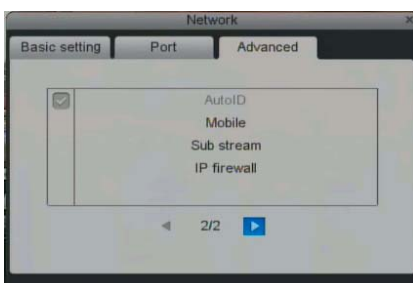
**[Setup Port]:** It’s used to control the DVR. The default number is “8000”. User can specify a different port number.

## III. Network—Advanced

In advanced menu, user can set up DDNS, FTP, Email, ESMS, UPNP, Auto ID, Mobile, Sub Stream and IP firewall.

“☒” indicates the selected option is enable. Click “☐” to enter into next page, and click “☐” to previous.

**Note:** User should enable the relevant function with “☒” before setup.



## IV. DDNS

“☒” indicates DDNS is enabled. Move the cursor to “DDNS” (the tab will be highlighted when selected) and press “Enter” to enter the DDNS setup menu.

The image shows a window titled "DDNS setup". It contains four labeled input fields: "Server" with a dropdown menu showing "3322", "Host name" with the text "zkw2011.3322.org", "User name" with the text "test", and "Password" with masked characters "\*\*\*\*\*".


**[Server]:** There are three options: “3322”, “dyndns” and “easterndns”.

**[Host Name]:** In this field, enter the name of the host server.

**[User Name]:** In this field, enter the username.

**[Password]:** In this field, enter the password.

## V. FTP

“” indicates FTP is enabled. Move the cursor to “FTP” (the tab will be highlighted when selected) and press “Enter” to access the FTP settings menu.


The image shows a window titled "FTP". It contains five labeled input fields: "Interval" with a dropdown menu showing "10 Sec.", "Port" with the text "00021", "User name" with the text "test", "Password" with masked characters "\*\*\*\*\*", and "Host name" with the text "XXX.XXX.XXX.XXX". There is also a blue "Test" button at the bottom right.

**[Interval]:** This indicates the interval for sending pictures to FTP server. The options are: “5 Sec.”, “10 Sec.”, 30 “Sec.” and “60 Sec.”.

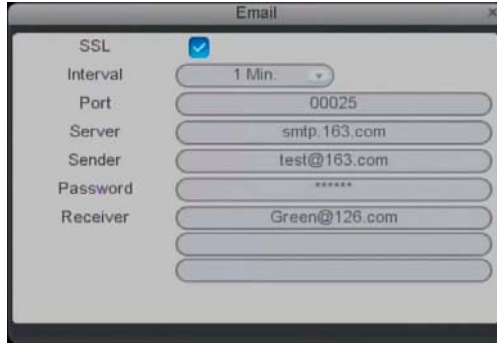
**[Port, User name, Password]:** Install the FTP server first, then register, and remember the port, username, and password. Entered the port, username, and password used here will be the same as the ones entered on the server.

**Host name:** The IP address of the computer on which the server is installed.

## VI. Email

“” indicates Email is enabled. Move the cursor to “Email” (the tab will be highlighted when selected) and press “Enter” to enter the Email setup menu.





**In the “Email setup” mode, refer to its parameter setup shown in the adjacent figure when setting email alarm to “on”.**

**[SSL]:** SSL is a security link transport protocol that can be used to encrypt information communicated over the Internet (including email) to prevent hackers from accessing the email communication or other information of users on a network, such as passwords.

**[Interval]:** This indicates the interval for sending email include; the options are: 5s, 10s, 30s, 1 minute and 3 minutes.

**[Port]:** This refers to the port of the SMTP server. Generally, the SMTP port number is “25”, but there are exceptions; for example, the SMTP port number of Gmail’s server is “465”.

**[Server]:** This indicates server address used by the DVR user.


**[Sender]:** In this field, enter the sender’s email address. The email address should be consistent with the server being used. That is, if the sender’s email address is [test@163.com](mailto:test@163.com), the corresponding server should be “[smtp.163.com](mailto:smtp.163.com)”.

**[Password]:** In this field, enter the password of the sender’s email address.

**[Receiver]:** In this field, enter the receiver’s email address (the email address being used to receive images transmitted from the DVR’s motion-detection alarm). Clear the images received as soon as possible to avoid exceeding the email account’s storage capacity.

For detailed SMTP protocols settings, refer to the preceding figure.

## VII. ESMS

“” indicates ESMS is enabled. Move the cursor to “ESMS” (the tab will be highlighted when selected) and press “Enter” to enter the ESMS setup menu.

The screenshot shows a window titled "ESMS setup". It has the following fields and controls:

- Interval:** A dropdown menu currently showing "1 Min."
- User:** A text input field containing "XXXXXX"
- Password:** A text input field containing "\*\*\*\*\*"
- Telephone:** A text input field that is currently empty.
- Account information:** A button with a right-pointing arrow.
- ESMS sending status:** A button with a right-pointing arrow.

**[Interval]:** From this field, choose the interval of time for sending alarm ESMS messages.

**[User, Password]:** Open an Internet browser, and in the address field, enter <http://www.textmagic.com>; follow the instructions on the website to register the DVR and the phone number being used for ESMS services. Remember the username and sender password (Password”) chosen. The username and sender password used here will be the same as in the ones registered on the website.

**[Telephone]:** Enter a phone number in this field in order to receive ESMS messages when an alarm is triggered.

## VIII. UPNP

“☒” indicates UPNP is enabled.

## IX. AutoID

“☒” indicates AutoID is enabled.

**Note:** The Auto ID is used for connecting the DVR to an Internet browser interface. For detailed instructions, refer to [Appendix 8](#).


## X. Mobile

Move the cursor over “Mobile” (the tab will be highlighted when selected), and press “Enter” to enter the mobile settings menu.

The screenshot shows a window titled "Phone monitor". It has the following fields and controls:

- Server port:** A text input field containing "10510".
- Network type:** A dropdown menu currently showing "2.75G".

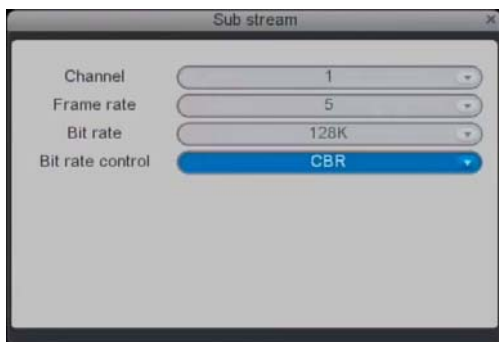
**[Server port]:** Mobile monitoring port. In this field, enter the relevant mobile port. The range for server ports is between “1024” and “65535”. The default is “10510”.

**[Network type]:** From this field, select from different mobile networks, including 3G, 2.5G, 2.75G and WIFI; return to the “save” menu, click “” to save a new network.

**Note:** Make sure to connect the DVR to the Internet before setting the DVR port number, and make sure the server port is not equal to network menus.

## XI. Sub Stream.

Move the cursor over “Sub Stream” (the tab will be highlighted when selected), and press “Enter” to enter the Sub stream menu.



**[Channel]:** After clicking the “Channel” tab, users can modify the settings of the camera connected to the selected channel. Users can modify the parameters of each channel independently.

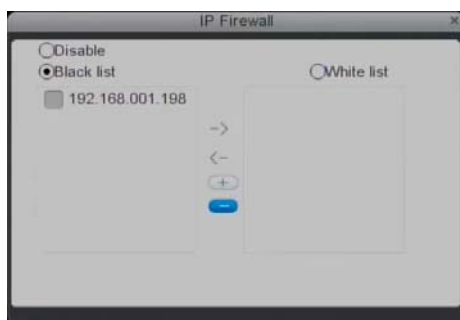
**[Frame rate]:** For the PAL video output format, options include 5-25 frames. For the NTSC video output format, options include 5-30 frames.

**[Bit rate]:** For 4-CH DVRs, there are 5 options: 64K, 128K, 192K, 256K and 384K. For 8-CH DVRs and 16-CH DVRs, there are 5 options: 32K, 64K, 96K, 128K and 160K.

**[Bit rate control]:** There are two options: VBR and CBR.

## XII. IP Firewall

Move the cursor over “IP Firewall” (the icon will be highlighted when selected), and press “Enter” to enter the IP Firewall menu.



The options for IP access settings are: “disable”, “Black list” and “White list”.

### 5.2.7 User

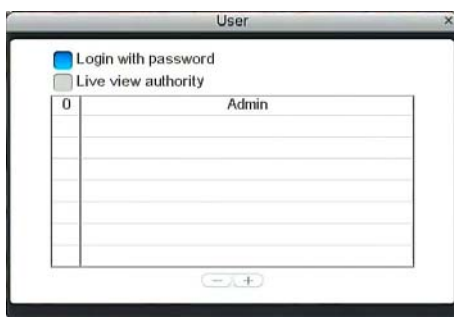
“Setup”— “Management” — “User” (the tab will be highlighted when selected) and press “Enter” to enter the “User” menu. In this field, a password for accessing the DVR system can be set or changed.

“☒ **Login with password**” indicates the password is enabled, and user must input the correct password to login the system.

After the password verification is set up (marked “☒”) the Administrator can set up to seven user passwords, as well as an Administrator password. If the password function is enabled, it will be necessary to enter the password before logging in.

**Note:** Once the password has been enabled, it is necessary to log in to the system as “Admin” in order to manage users; The Administrator’s username (“Admin”) cannot be modified.

**The default password for Admin is “888888” and the default password for User1 is “666666”.**




“☒ **Live view authority**” indicates that if the system administrator logout the system, all the users can’t view all the channels unless they login the system.

The following settings can only be set by the system administrator (who will be referred to throughout this manual as “the Administrator”; the username for the system administrator is “Admin”).

**[Add Users]:** Click “” to add new users. In this window, enter the new user’s name and password in the corresponding fields, and then to confirm the password, enter it a second time in the “Confirm Password” field. The length of the password must not exceed 6 digits. And user can add seven users at most. Click “” to save.



**[Delete Users]:** From this window (see the following figure), the Administrator can delete users (the color of the user has been selected will be yellow) by selecting the user of the user account to be deleted. And click “” to enter the window to confirm.



**[Modify Password]:** Select a user to enter the interface to modify user’s password. From this window, the Administrator can change the system’s password. For security reasons, before a new password can be set, it is necessary to enter the original password.



**[Local Permission]:** This allows the Administrator to give each user its permission to access a unique set of DVR functions. That is, the Administrator can give a user access to one, some, or all of the following functions: Record, PTZ control, Playback/Backup, Set parameter, E-zoom, Mute/Mute off, PIP, Auto sequence, and Update/Reboot/Maintenance/Format/Default, and the set of functions that one user is allowed to access may include functions that are different from the set of functions that another user is allowed to access (see the below figure).






**[Live view authority]:** Another very important function for the Administrator is “Live View Authority”, which allows the Administrator to set different viewing permissions for different users (see the preceding figure). The yellow indicates the authority is enabled, and the gray indicates that the authority is disabled. The Administrator can decide which channel(s) each


user is allowed to view. The Administrator has permission to view all channels, and this permission cannot be modified.

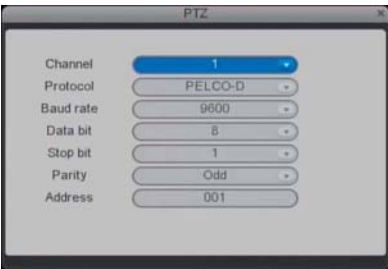
**[Remote Permission]:** This is a very important function for remote operation of the DVR. The Administrator can use this function to set each user’s remote access permissions, such as access to PTZ controls, Record/Snapshot, Playback/Download, Set Parameters and Mute On/Mute Disable from a computer that is not on the local network (see the following figure).



“” indicates that authority is enabled, “” indicates that authority is disabled. Click “” to save.

5.2.8 PTZ

“Setup”—“Management”—“PTZ”(the tab will be highlighted when selected) and press “Enter” to access the “PTZ” setting interface. A unique set of PTZ parameters can be set for each channel. In this menu, users can select values for each of the fields by pressing the arrow buttons at each end of the field. The changes will take effect after returning to the save menu to click “” to save the settings.



**[Channel]:** This is the channel that PTZ is connected to.

**[Protocol]:** From this field, select the PTZ device protocol. It must be consistent with the protocol of the actual PTZ cameras installed. There are two available options: PELCO-D and PELCO-P.

**[Baud Rate]:** Select the PTZ device baud rate. It must be consistent with the baud rate of the actual PTZ cameras installed. This system supports four options: 1200, 2400, 4800 and 9600.

**[Data bit]:** The options for the PTZ Data Bit are “5”, “6”, “7” and “8”. The default setting is “8”.

**[Stop Bit]:** The PTZ Stop Bit options are “1” and “2”. The default setting is “1.”

**[Parity]:** The PTZ parity options are: “None”, “Odd”, “Even”, “Mark” and “Space”. The default setting is “None.”

**[Address]:** In this field, select the PTZ device ID. It must be consistent with the ID of the actual PTZ cameras installed. Choose any number from 1 to 255, but note that this is not the same as the number of the channel to which the PTZ camera is connected in the DVR system.

The changes will take effect after clicking “” to save the changes on the save menu.

Note that the abovementioned channel setting must match the settings of the PTZ camera.



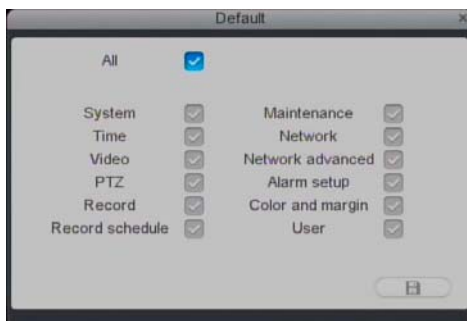
**Note:** When making changes to PTZ camera functionality / settings, make sure that these changes are being made to actual PTZ cameras by selecting the correct number in the previous field (Camera Channel).

### 5.2.9 Default

“Setup”— “Management” — “Default” (the tab will be highlighted when selected) and press “Enter” to access the “Default” setting interface.

The system restores the default configuration status in the factory, and corresponding setting can be resumed based on options on the menu. User can select “All” to restore all the settings to the original factory settings. The options include: System, Time, Video, PTZ, Record, Record Schedule, Maintenance, Network, Network advanced, Alarm Setup, Color and margin and User.

**Prompt:** The port, resolution of VGA and language can’t be resumed.



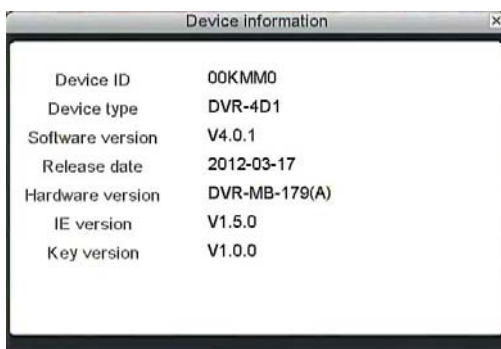
### 5.3 Information

“Setup”—“Information”(the tab will be highlighted when selected) and press “Enter” to enter the “System Information” menu. Options include “Device Information”, “Log” and “Network Information”.



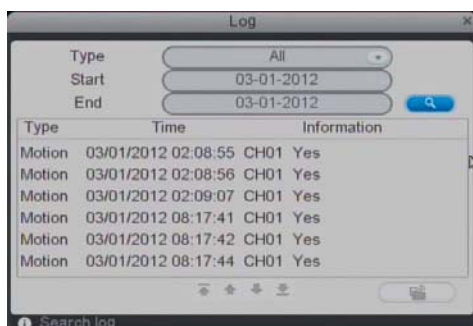
### 5.3.1 Device Information

“Setup”— “Information” — “Device Information” (the tab will be highlighted when selected) and press “Enter” to enter the “Device Information” menu. The information included accessible through this interface includes: the device ID, the device type, the software version, the release date, the hardware version, the IE version and the key version (for example, 4-CH, as shown in the following figure).



### 5.3.2 Log Information

“Setup”— “Information” — “Log” (the tab will be highlighted when selected) and press “Enter” to enter the “Log Information” menu (as shown in the following figure).











At the top of the “Log Search” page are the following filters to facilitate locating the desired file(s):

**[Type]:** Choose from the following options: “All”, “Operation”, “Video Loss”, “MD” and “I/O Alarm”.

**[Start]:** Set the starting time of the log being searched for.

**[End]:** Set the ending time of the log being searched for.

Click the “ Search” button after setting the log time and type, and the system will display the selected log in the list. Click “”, “”, “” and “” to navigate pages, and click “” to save the log list to a USB drive.

### 5.3.3 Network Information

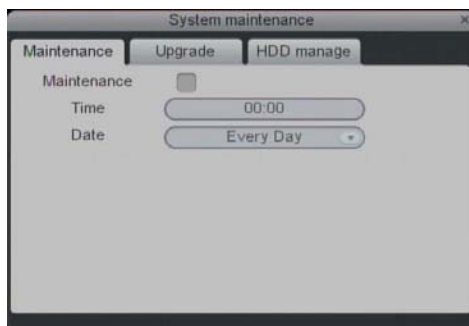
“Setup”—“Information”— “Network Information” (the tab will be highlighted when selected) and press “Enter” to enter the “Network Information” menu (as shown in the following figures).

The information included accessible through this interface includes network type, IP address, network status and MAC address. And the network status includes “OK”, “disconnect” and “IP conflict”.




### 5.4 System Maintenance

“Setup”— “Maintenance” (the tab will be highlighted when selected) and press “Enter” to enter the “System Maintenance” menu. Options include “Maintenance”, “System Upgrade” and “HDD Management”.

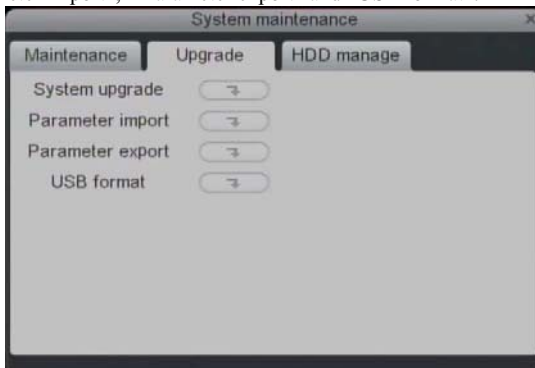


### 5.4.1 Maintenance


To enter the “System Maintenance” menu, select “Maintenance”. “” indicates that the option of “maintenance” is enabled; users can set a specific time for the DVR to restart. The system will restart automatically according to the parameter(s) chosen.

### 5.4.2 Upgrade

To enter the “System Maintenance” menu, select “Upgrade”. Options include “System upgrade”, “Parameter import”, “Parameter export” and “USB format”.



#### I. System Upgrade

Create a new root directory called “dvrupgrade” on a USB flash drive, copy the update file to it, and then insert it into USB port of the DVR. Press “” to upgrade the firmware and it will display the process of the system upgrade.

**The system upgrade will require at least two minutes; during this time, do not remove the USB drive or turn the DVR disable. After completing the upgrade, the DVR will restart.**

#### II. Parameter import

It is necessary to export parameter to a USB drive before importing any parameter from the USB drive; otherwise, it will not be possible to successfully import the parameter.

#### III. Parameter export

User can export important parameters to a USB drive to save. And import the same parameters to other DVRs.

#### IV. USB format

This enables users to format the USB device connected to the DVR.


### 5.4.3 HDD Manage



To enter the “System Maintenance”, select “HDD Manage” (see adjacent figure).



**[Size/Free]:** This field indicates amount of space available and the amount of unused space available on the hard disk drive.

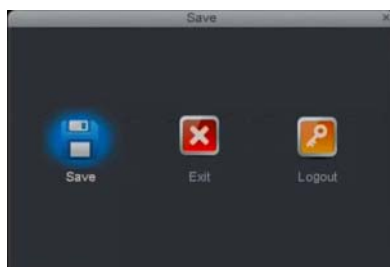
**[Free Time]:** Indicates remaining recording time on the HDD.

**[State]:** There are three available statuses: “OK”, “un-format”, and “No HD Disk.” If the HDD cannot operate normally (including when the status is “unformatted” or “no HDD”), there will be a “” icon displayed on video live view. If a new HDD is used with the DVR for the first time, please format the HDD.

**[Format HDD]:** Move the cursor to select the device to be formatted, “” indicates the option of “format” is enabled, and click “” to begin formatting.

## 5.5 Save/Exit

“Setup”—“Save/Exit”(the tab will be highlighted when selected) and press “Enter” to enter the “Save” menu.



**[Save]:** Save all settings and exit the menu.

**[Exit]:** Exit the menu without saving any changes.

**[Logout]:** By using this option, you save all newly introduced changes and log out of the system. To be able to operate the device you need to log in again with the user name and password if the password is enabled.

# 6. Web Browser Operation

## 6.1 Feature

Install the software through the Internet browser of OS to conveniently operate the network from a remote location. This DVR supports C/S, B/S, and access in LAN and WAN. It also

supports IP and domain name visiting.

### IMPORTANT! SOFTWARE RECOMMENDATIONS:

To ensure reliable remote viewing of DVR footage, it is highly recommended that users have either Windows XP, Windows 7 or Windows Vista installed on their computers, and that they use either Internet Explorer 6.0, Internet Explorer 7.0, Internet Explorer 8.0, Internet Explorer 9.0, Mozilla Firefox, or Google Chrome as their Internet browser. (In the appendix, there is an explanation of how to access the DVR using Firefox or Google Chrome.)

## 6.2 Network Security Setting

Prior to setting up remote access, set the network security level by following the following instructions:

- (1) Open the Internet Explorer browser and click the “Tools” tab located in the bar at the top of the browser; from the dropdown menu, select “Internet Options”.
- (2) Click the “Security” tab in the dialogue box.



- (3) Click “Custom level” (at the bottom of the dialogue box) to set the security level.



**Set the appropriate settings for the ActiveX controls and plug-ins. Find the following controls in the “Security Settings” box and select the “Enable” option for each of them. This is an extremely important step.**

- ✓ Automatic prompting for ActiveX controls
- ✓ Binary and script behaviors
- ✓ Initialize and script ActiveX controls not marked as safe for scripting.

- ✓ Download signed ActiveX controls
- ✓ Download unsigned ActiveX controls
- ✓ Run ActiveX controls and plug-ins
- ✓ Script ActiveX controls safe for scripting.

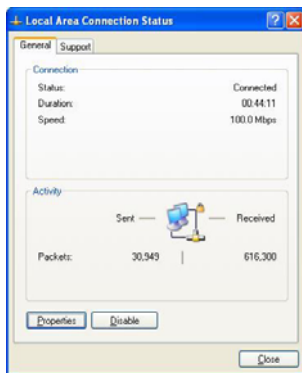
**Prompt: Before setting up remote access, turn Disable the firewall and any anti-virus software currently running on the computer.**

## 6.3 Connection Settings

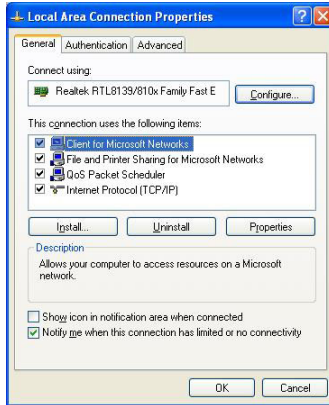
Remote access to the hard disk drive is carried out over the Internet. In the local area network, the IP address of the client-side computer must be in the same network segment that the IP address of the hard disk drive. In the wide area network, the only requirement is that the two sides can visit the public network and connect to the Internet through the IP address or the dynamic domain name. The following will mainly focus on connecting and setting up the local area network.

**Step 1:** Right-click on “Network Neighborhood” and click “Properties” in the menu to open the “Network Connections” menu. Alternatively, if the operating system being used does not have a “Network Neighborhood” icon, enter the Control Panel found in the “Start” menu; then, click “Network and Internet”, and select “Network and Sharing Center.” On the “Network and Sharing Center” page, there should be a “Network” section; in that section, there should be a “View Status” link next to a listing that reads “Connection: Local Area Connection.” Click the “View Status” link. A small “Local Area Connection Status” window will appear; at the bottom of this screen, click “Properties”, and if prompted to give permission to continue, click “Yes.”

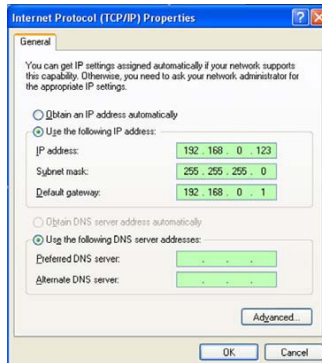
**Step 2:** Double-click to open “Local Area Connection” from the “Network Connections” menu.



**Step 3:** Click “Properties” in the lower-left corner of the window (see preceding figure).



**Step 4:** Double-click “Internet protocol (TCP/IP)” from the “This connection uses the following items” list in the center of the window (see preceding figure).



**Step 5:** Examine the IP address, subnet mask, and default gateway on the PC.

**Step 6:** Set the corresponding IP address, subnet mask, and default gateway on the DVR (for detailed instructions, refer to Section 5.5.5 Network Setup). If the subnet mask and default gateway on DVR are the same as those of the computer, then the IP address is most likely in the same network segment. However, they must not be exactly the same as the ones on the DVR, as this will cause IP address conflicts. Taking the preceding figure as an example, the IP address should be: 192.168.0.X, where X cannot be 40 or 1 (including other IP addresses currently being used), and cannot exceed 255, as the subnet mask is 255.255.255.0, and the gateway is 192.168.0.1.

## 6.4 Control Download and Installation

After the aforementioned settings have been adjusted and saved, open the Internet browser, enter <http://192.168.1.X> (192.168.1.X is the set IP address of the DVR) and confirm. If the http port of DVR setting has been changed (if it is not “80”), it will be necessary to add a “:” followed by a port number. For example, assuming that the current port number is “P”, enter “<http://192.168.1.X:P>”, to correct the problem.

After connecting to the internet, Internet Explorer (or other Internet browser being used) will automatically download the file to the computer as follows. Click “Install”.



The system will automatically enter the GUI as follows.



Select the English interface from the upper left side. Enter the correct password if a password has been enabled. The password is the same as the one set in DVR.

**[USER ID]:** In this field, enter a username. The Administrator has all permissions, but other users have limited permissions. The Administrator can change each user's remote permissions from the User Management menu.

**[PASSWORD]:** The password is as the same as the password for the DVR.

**[NETWORK]:** MAIN STREAM or SUB STREAM.

**[Open Preview]:** ☒ enable to view all the cameras automatically after the login. ☐ means that user needs to connect all the cameras manually after the login.

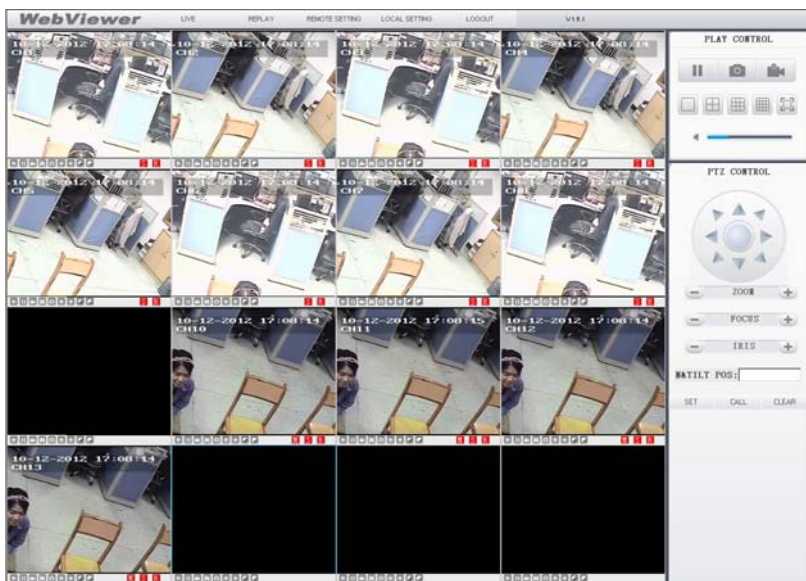
**Note:** If the device is connected to the WAN, the IP address should be a public IP address.

## 6.5 Operation Interface

Options in the main interface include “LIVE”, “REPLAY”, “REMOTE SETTING”, “LOCAL SETTING” and “LOGOUT.” Click any option to access it.

### 6.5.1 Live

Click “Live” to enter the interface as follows (in some cases, it will be necessary to click “▶” to open images from the DVR). For 8-CH DVRs, the default window will show eight-split frame after connecting successfully.



The left bottom corner of each individual channel is occupied by camera view tools:

/ : Connect the current window view or close the current window view.

/ : Start recording or stop recording of the current channel view. And the right bottom corner of the current channel has a normal recording video symbol “”.

: Takes a snapshot of the displayed image.

: Increase or decrease brightness.

: Increase or decrease image contrast.

: This indicates that the channel has detected motion while in motion-detection mode of the remote DVR.

: This indicates that the channel has detected that something has set enable the sensor alarm while in alarm mode of the remote DVR.

## 6.5.2 Controls

To use the controls, move the cursor over the icons, which will become highlighted when selected.

/ Connect all windows or disconnect all windows.

Capture images which can be saved in a local disk (the default system save path is “c:\DVR\BACKUP”).

Quick-start to record video on all channels, and the right bottom corner of each channel has a normal recording video symbol “” (the default system save path is “c:\DVR\BACKUP”).

Click these icons to switch between the single-screen () , quad-split () , nine-split () ,



eight-split () , sixteen-split () and full-screen () options.



Click on the vertical bars to adjust the volume.



Click these buttons to control the PTZ camera to the corresponding location.



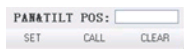
Clicking “+” or “-” causes the lens to zoom in and out.



Clicking “+” or “-” brings objects into clear focus.



This regulates the diaphragm.



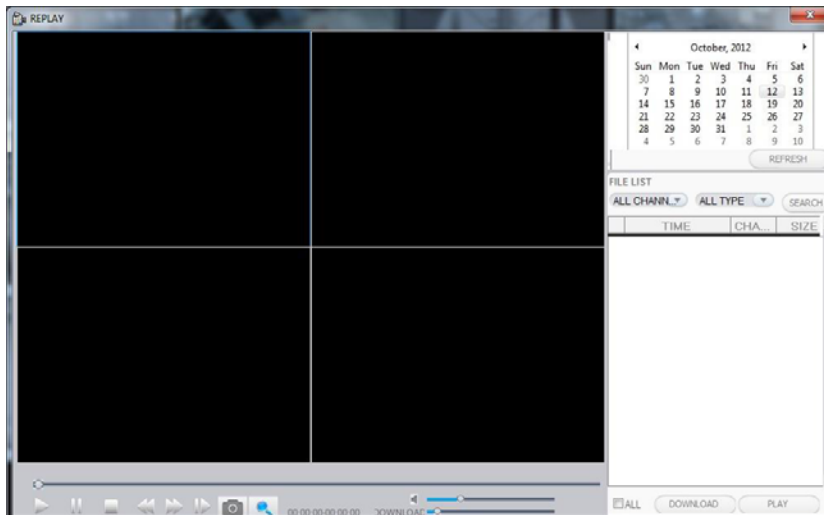
To set preset, call preset or clear preset.

## 6.5.3 Other Operations

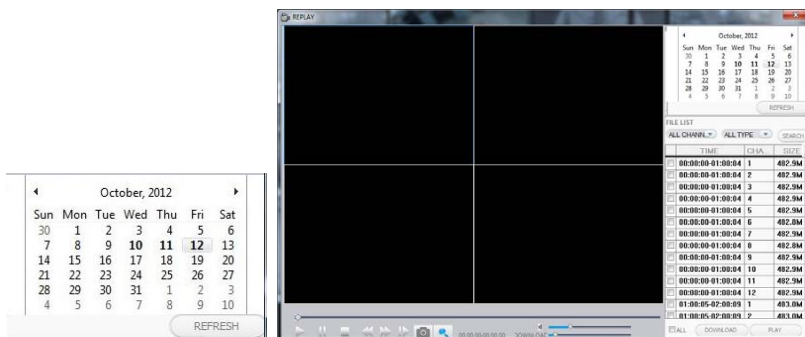
1. Select one channel from the preview screen (**the color of the selected channel’s frame will change to blue**), and double-click the left mouse key will enlarge the current channel view. And single-click right mouse key as a full-screen display of the selected channel.
2. Single-click right mouse key on the preview screen will maximize all the current channels to full-screen. And single-click right mouse key again will back out.

## 6.5.4 Replay

Click “REPLAY” to enter the playback interface.



To search for a recording by date, click calendar in the upper-right corner, and use “<” and “>” to set the month of the video being searched for; click “REFRESH” (located just below the calendar) to display the recording information of current month.

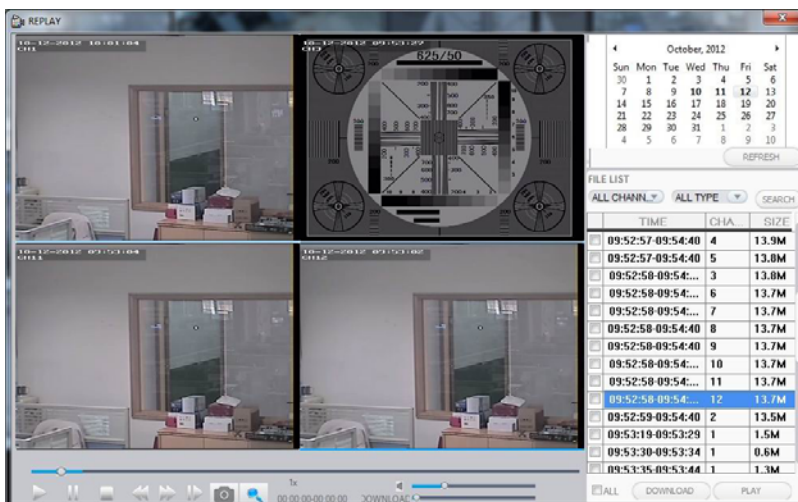


The highlighted date indicates the recording date of the video being played. Click on a date to view the recording file list for that day. For example, the preceding figure shows that there are videos on file that were recorded on October 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> (indicated by the numbers being in bold print), and is the recording file list that is currently open is the list of videos recorded on October 12<sup>th</sup> (indicated by the darker background and the "12" in white text).

Another way to find a video is to select the channel and type of the file in question from the file list below the calendar. After selecting the channel and type from their respective dropdown menus at the top of the file list, click "SEARCH" and the results will be displayed in a list like the one in the following figure.

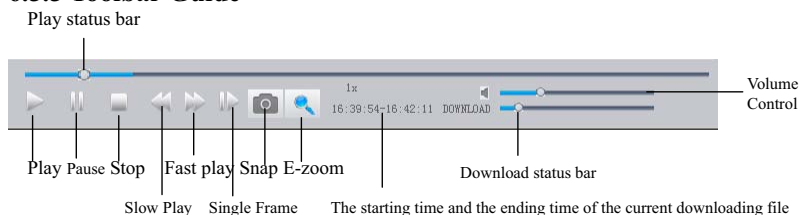
FILE LIST			
ALL CHANN...		ALL TYPE	SEARCH
	TIME	CHA...	SIZE
<input type="checkbox"/>	09:52:57-09:54:40	4	13.9M
<input type="checkbox"/>	09:52:57-09:54:40	5	13.8M
<input type="checkbox"/>	09:52:58-09:54:...	3	13.8M
<input type="checkbox"/>	09:52:58-09:54:...	6	13.7M
<input type="checkbox"/>	09:52:58-09:54:...	7	13.7M
<input type="checkbox"/>	09:52:58-09:54:40	8	13.7M
<input type="checkbox"/>	09:52:58-09:54:40	9	13.7M
<input type="checkbox"/>	09:52:58-09:54:...	10	13.7M
<input type="checkbox"/>	09:52:58-09:54:...	11	13.7M
<input type="checkbox"/>	09:52:58-09:54:...	12	13.7M
<input type="checkbox"/>	09:52:59-09:54:40	2	13.5M
<input type="checkbox"/>	09:53:19-09:53:29	1	1.5M
<input type="checkbox"/>	09:53:30-09:53:34	1	0.6M
<input type="checkbox"/>	09:53:35-09:53:44	1	1.3M
<input type="checkbox"/> ALL <input type="button" value="DOWNLOAD"/> <input type="button" value="PLAY"/>			

Double-click one of the listed recorded videos or select one of the listed recorded videos and then click "PLAY" to begin playback.



Using this button, users can download files to their computers and save them to a HDD for backup or later viewing. The downloaded file format is "AVI". The option " " on the left side of the file is available for downloading. " " indicates the file will be saved to a HDD after clicking the "DOWNLOAD" button.

## 6.5.5 Toolbar Guide



## 6.5.6 Remote Settings

Click "Remote Setting" to enter the "Video Parameter" setup menu. This interface includes settings for recording, alarms, PTZ, networking, advanced settings, and system information, which can all be modified remotely through an Internet browser once users have been provided the necessary accounts, passwords, and permission to access the setting(s) in question.

### A. Encode Settings

In the sidebar on the left, click "Encode Setting", then select "Video Parameter" to enter the video parameter interface. From this page, users can adjust recording parameters (resolution, quality, and frame rate) and net parameters (frame rate, quality and stream control) for each channel.

**VIDEO PARAMETER**

- ENCODE SETTING
  - VIDEO PARAMETER
  - RECORD SETTING
  - ALARM SETTING
  - PTZ SETTING
  - NETWORK SETTING
  - ADVANCED SETTING
  - SYSTEM INFO
  - REMOTE UPGRADE
  - USERMANAGER

RESOLUTION:

CHANNEL:

**REC PARAMETER**

FRAME RATE:       QUALITY:

**NET PARAMETER**

FRAME RATE:       QUALITY:

STREAM CTRL:

COPY SETTINGS TO...    DEFAULT    SETUP    REFRESH

## B. Recording Settings

Click “Record Setting” to enter the recording settings menu. From this page, users can enable or disable recording for each channel, set recording schedules, and adjust specific recording parameters, i.e. enabling/disabling audio, setting the pack time, and setting recording modes.

**RECORD SETTING**

- ENCODE SETTING
- VIDEO PARAMETER
- RECORD SETTING
- ALARM SETTING
- PTZ SETTING
- NETWORK SETTING
- ADVANCED SETTING
- SYSTEM INFO
- REMOTE UPGRADE
- USERMANAGER

**REC CTRL PARAMETER**

AUDIO ENABLE:

UNIT OF PACK:  MINUTE

REC MODE:

CHANNEL:

REC ENABLE:

**TIMER REC SCHEDULE**

REC TYPE: ☒ MOTION    ☐ NORMAL    ☐ I/O ALARM    ☐ MD, I/O    ☐ NO

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
S..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
M..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
T..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
W..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
T..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
FRI	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue
S..	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Blue	Blue	Blue

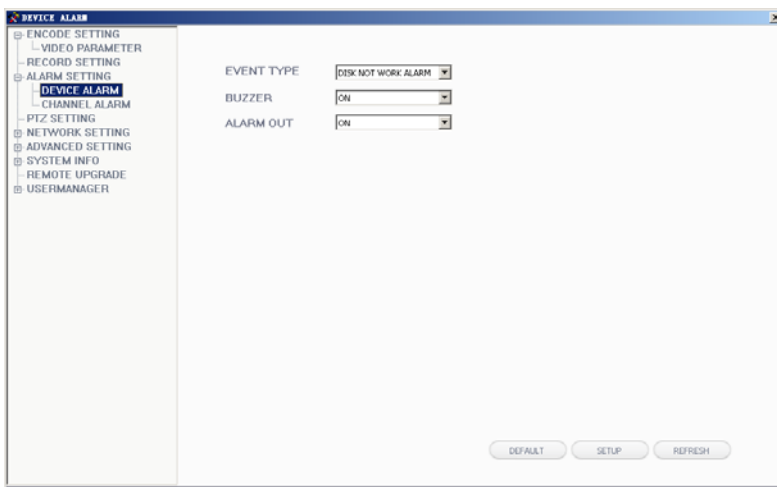
COPY  TO     COPY

COPY SETTINGS TO...    DEFAULT    SETUP    REFRESH

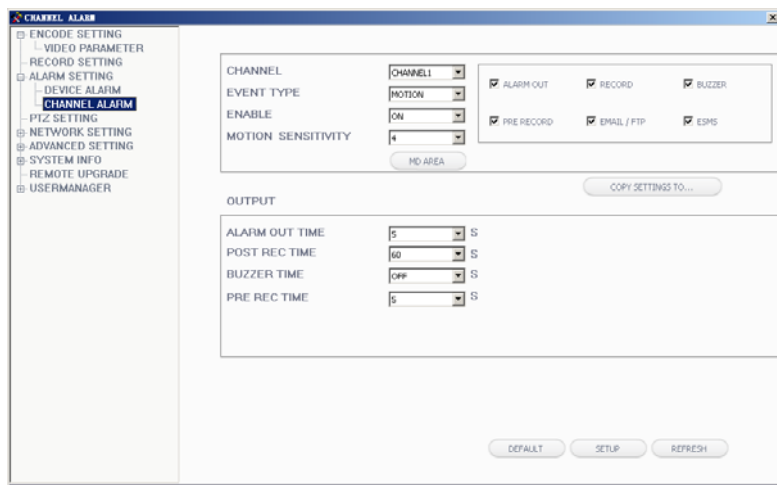
## C. Alarm Settings

**[Device Alarm Settings]:** From the sidebar on the left, click “Alarm Setting”, then select “Device Alarm” to enter the “Device Alarm” setup interface. From this interface, users can set alarm event types; that is, they can decide which types of events will trigger an alarm by

selecting event types from the “Event Type” dropdown menu. They can also turn the buzzer and alarm out on or Disable from this page.



**[Channel alarm settings]:** From the sidebar on the left, click “Alarm Setting”, then select “Channel Alarm” to enter the “Channel Alarm” setup interface. From this interface, users can set I/O alarms for each channel, set motion-detection alarms, define motion-detection privacy masking areas, motion sensitivity, alarm-out time, buzzer time, prerecording time, and post-recording time.



## D. PTZ Settings

From the sidebar on the left, click “PTZ Setting” to access the PTZ settings interface. Users can

set PTZ parameters remotely using the same methods used in the local DVR setup. All of the parameters can be adjusted by selecting values from their respective dropdown menus.

**PTZ SETTING**

- ENCODE SETTING
  - VIDEO PARAMETER
- RECORD SETTING
- ALARM SETTING
  - DEVICE ALARM
  - CHANNEL ALARM
- PTZ SETTING**
- NETWORK SETTING
- ADVANCED SETTING
- SYSTEM INFO
- REMOTE UPGRADE
- USERMANAGER

CHANNEL: CHANNEL1

PTZ CONTROL

PROTOCOL	PELCO-D
ADDRESS	1
BAUD RATE	2400
DATA BIT	8
STOP BIT	1
VERIFY	000

COPY SETTINGS TO... DEFAULT SETUP REFRESH

## E. Network Settings

From the sidebar on the left, click “Network Setting”, and then select “Network” to enter the network settings interface. The menu allows users to set a lower bandwidth for Internet video transmission.

**NETWORK**

- ENCODE SETTING
  - VIDEO PARAMETER
- RECORD SETTING
- ALARM SETTING
  - DEVICE ALARM
  - CHANNEL ALARM
- PTZ SETTING
- NETWORK SETTING**
  - NETWORK
  - MOBILE
  - EMAIL
  - IP FIREWALL
  - ESMS SETTINGS
  - FTP SETTINGS
- ADVANCED SETTING
- SYSTEM INFO
- REMOTE UPGRADE
- USERMANAGER

**BASIC ATTRIBUTE**

TYPE	STATIC	NETMASK	255.255.255.0
IP	192.168.1.156		
PREFERRED DNS	192.168.1.1		
MEDIA PORT	8009	WEB PORT	8099
GATEWAY	192.168.1.1		

**PPPoE**

PPPoE ENABLE	OFF	PASSWORD	
USER NAME			

**DDNS**

DDNS ENABLE	OFF	HOST NAME	
SERVICE	3322	PASSWORD	
USER NAME			

DEFAULT SETUP REFRESH

## F. Mobile Settings

From the sidebar on the left, click “Network Setting”, and then select “Mobile” to enter the

“Mobile Settings” interface. From this page, users can set ports and select a network type.

The screenshot shows a web-based configuration interface titled "MOBILE". On the left is a sidebar menu with the following items: ENCODE SETTING, VIDEO PARAMETER, RECORD SETTING, ALARM SETTING (with sub-items DEVICE ALARM and CHANNEL ALARM), PTZ SETTING, NETWORK SETTING (with sub-items NETWORK, MOBILE, EMAIL, IP FIREWALL, ESMS SETTINGS, and FTP SETTINGS), ADVANCED SETTING, SYSTEM INFO, REMOTE UPGRADE, and USERMANAGER. The "MOBILE" item is selected and highlighted. The main content area is titled "MOBILE" and contains two input fields: "PORT" with a text box containing "10510" and "NETWORK TYPE" with a dropdown menu showing "2.75G". At the bottom right of the main area are three buttons: "DEFAULT", "SETUP", and "REFRESH".

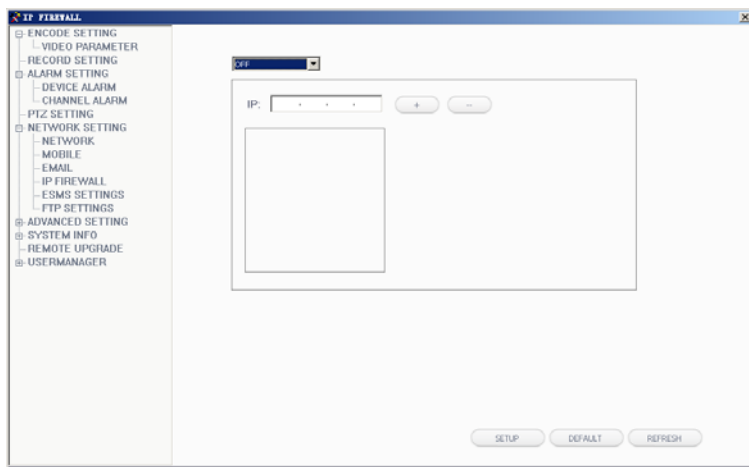
## G. Email Settings

From the sidebar on the left, click “Network Setting”, and then select “Email” to enter the email settings interface. From this menu, users can enable or disable email notifications, set the time interval for sending email notifications, enable or disable SSL, and modify SMTP settings (i.e. setting the SMTP server, port, sender, password, and addresses).

The screenshot shows a web-based configuration interface titled "Email". The sidebar menu is identical to the previous screenshot, but the "EMAIL" item under "NETWORK SETTING" is selected and highlighted. The main content area is titled "EMAIL" and contains the following settings: "EMAIL ENABLE" with a dropdown menu set to "OFF", "SEND INTERVAL" with a dropdown menu set to "5" and a unit "S", "SSL ENABLE" with two radio buttons, "OFF" (selected) and "ON", and an "EMAIL SETTING" section with a table of input fields: "SMTP SERVER", "SMTP PORT", "SENDER", "PASSWORD", "ADDRESS 1", "ADDRESS 2", and "ADDRESS 3". At the bottom right of the main area are three buttons: "DEFAULT", "SETUP", and "REFRESH".

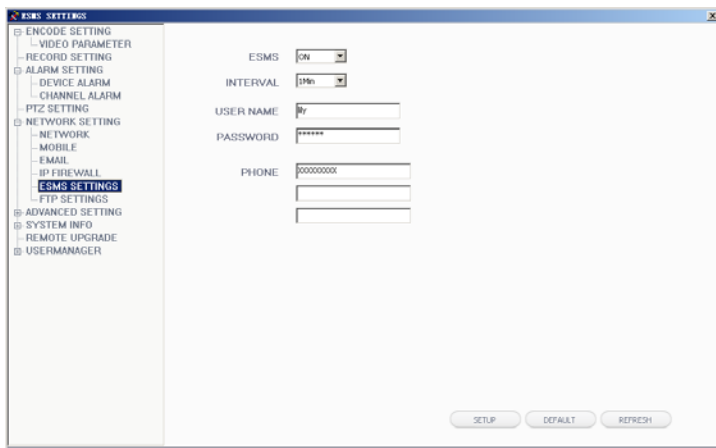
## H. IP Firewall Settings

From the sidebar on the left, click “Network Setting”, and then select ”IP Firewall” to enter the firewall settings interface. From this page, users can turn the firewall on or Disable for specific IP addresses.



## I. ESMS Settings

From the sidebar on the left, click “Network Setting”, and then select “ESMS Settings” to enter the ESMS settings interface. From this interface, users can select the interval for receiving ESMS alerts, and add phone numbers that should receive ESMS alerts if alarms are triggered.



## J. FTP Settings

From the sidebar on the left, click “Network Setting”, and then select “FTP Settings” to enter the file transfer protocol (FTP) settings interface. From this page, users can set the port,



username, password, and host name for FTP.

**FTP SETTINGS**

- ENCODE SETTING
  - VIDEO PARAMETER
- RECORD SETTING
- ALARM SETTING
  - DEVICE ALARM
  - CHANNEL ALARM
- PTZ SETTING
- NETWORK SETTING
  - NETWORK
  - MOBILE
  - EMAIL
  - IP FIREWALL
  - ESMS SETTINGS
  - FTP SETTINGS**
- ADVANCED SETTING
- SYSTEM INFO
  - REMOTE UPGRADE
- USERMANAGER

FTP:

PORT:

USER NAME:

PASSWORD:

HOST NAME:

SETUP DEFAULT REFRESH

## K. System Settings

From the sidebar on the left, click “Advanced Setting”, then select “System Setting” to enter the system settings menu. From this menu users can set the language and TV mode for the DVR, and set starting and ending times and dates for Daylight Savings Time (or turn the setting Disable altogether).

**SYSTEM SETTING**

- ENCODE SETTING
  - VIDEO PARAMETER
- RECORD SETTING
- ALARM SETTING
  - DEVICE ALARM
  - CHANNEL ALARM
- PTZ SETTING
- NETWORK SETTING
  - NETWORK
  - MOBILE
  - EMAIL
  - IP FIREWALL
  - ESMS SETTINGS
  - FTP SETTINGS
  - ADVANCED SETTING**
    - SYSTEM SETTING**
- SYSTEM INFO
  - REMOTE UPGRADE
- USERMANAGER

**SYSTEM SETTING**

LANGUAGE:

TV MODE:

**DAYLIGHT SAVING TIME**

DST:

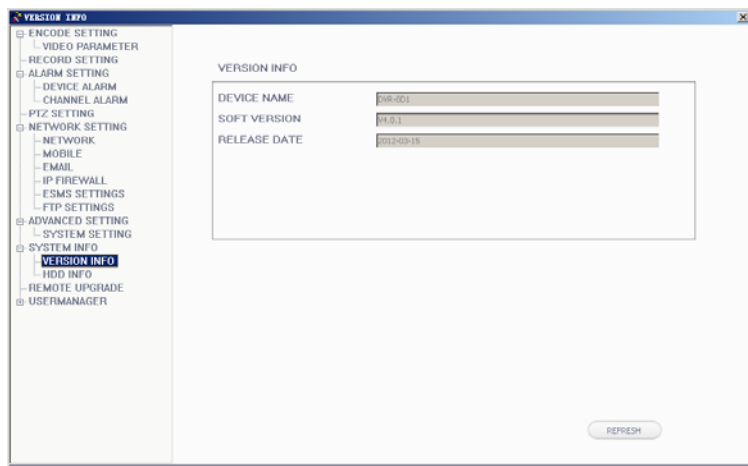
START TIME:  SUNDAY

END TIME:  SUNDAY

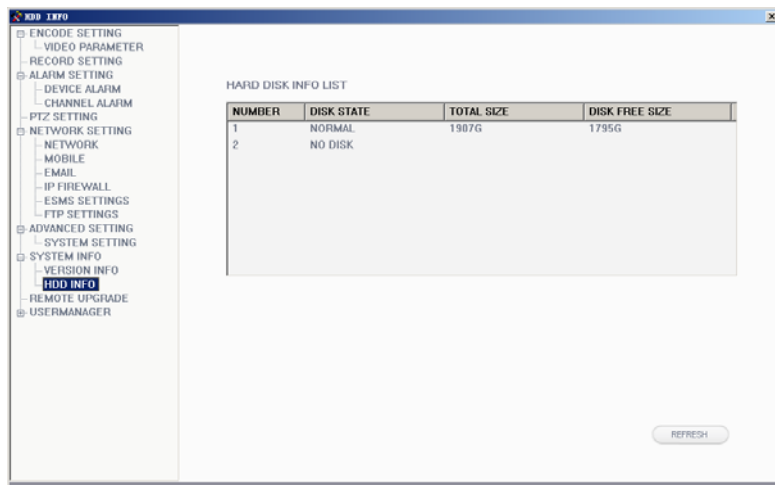
DEFAULT SETUP REFRESH

## L. System Information

**[Device/Software Version Information]:** From the sidebar on the left, click “System INFO”, and then select “Version INFO” to enter the system information interface. Here, users can find out the device name and software version, and the release date.

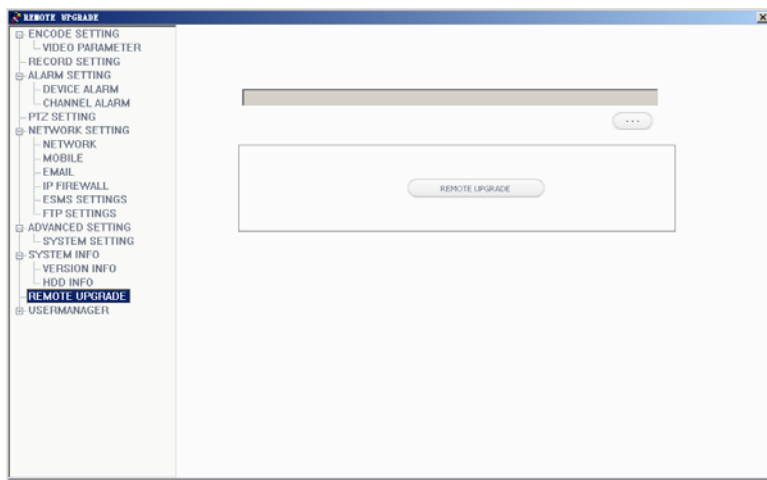


**[HDD Information]:** Clicking “HDD INFO” under the “System INFO” tab will open the hard disk drive information interface. From this page, users can check the hard disk drive status, the total storage capacity of hard disk drive, and of the amount of free space left on the hard disk drive.



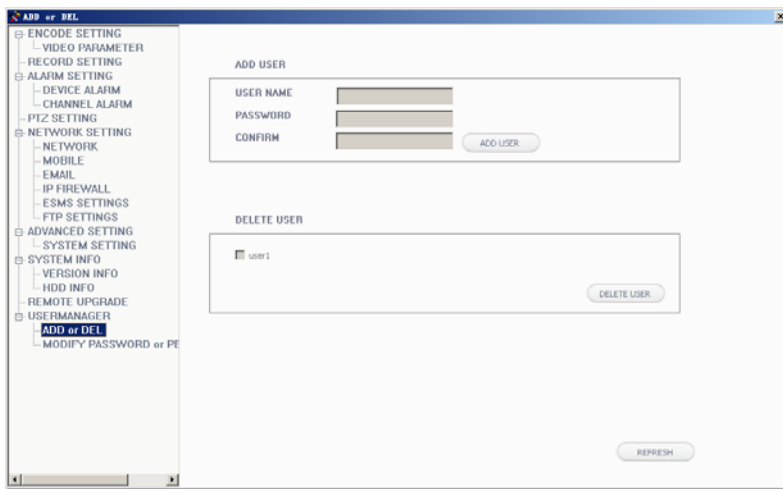
## M. REMOTE UPGRADE

From the sidebar on the left, click “REMOTE UPGRADE” to enter the remote upgrade interface. Clicking “...” will select file for upgrading. Then click the “REMOTE UPGRADE” remote upgrade button in the center of the screen.



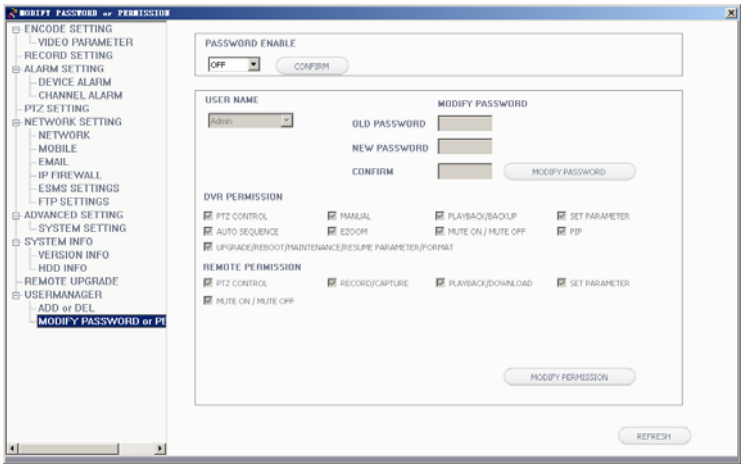
## N. User Management

**[Add/Delete Users]:** From the sidebar on the left, click “User Manager”, and then select “ADD OR DEL” to enter the user management interface. Once a password has been enabled, this interface can only be accessed by the Administrator. The Administrator can add new users or delete any users at his or her discretion.



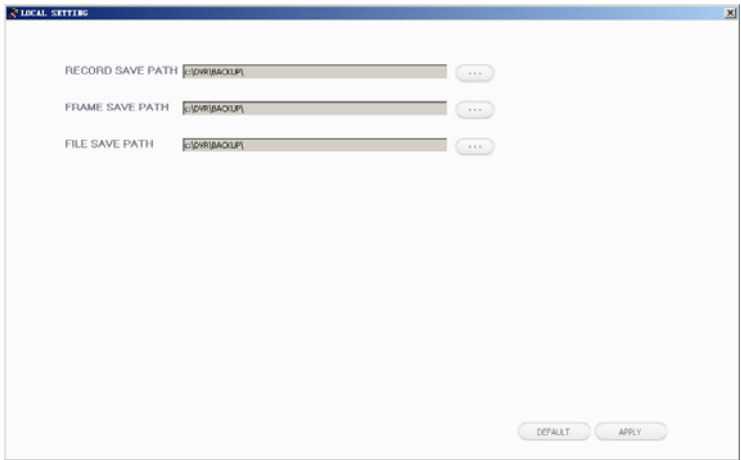
**[Privacy Settings]:** From the sidebar on the left, click “User Manager”, and then select

“MODIFY PASSWORD OR PRI” to enter the privacy settings interface. Once a password has been enabled, this interface can only be accessed by the Administrator. The Administrator can use this page to set and or modify the system password, local permissions, and remote permissions.



### 6.5.7 Local Settings

From the sidebar on the top, click “Local Setting” to enter the local settings interface. From this page, users can set up the save path for local settings; in the “Record Save Path” field, they can create a save path for recordings, in the “Frame Save Path” field, they can create a save path for video/still images, and in the “File Save Path” they can create a save path for downloads. Clicking “...” will set up the respective save path.



## 6.5.8 Logout

Click “Logout” to log out of the system.

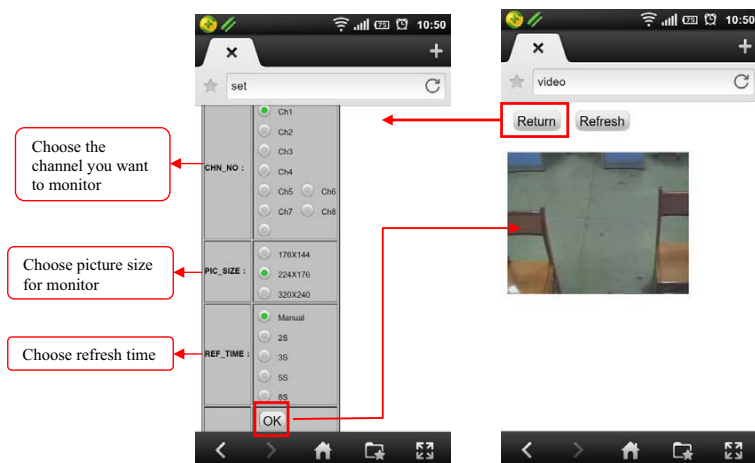
## 7. Wap Connection

The digital video recorder can also be remotely accessed by using a Web browser installed on a mobile phone that supports **xHTML** and **MJPEG** file formats, and has a screen resolution of 320x240 or higher. To access the digital video recorder, follow these instructions:

1. Make sure the digital video recorder is connected to the Internet.
2. Open the Internet browser on the mobile phone and enter the IP address of the DVR. For example, if the IP address of the DVR is 192.168.1.156 and its web port is 8099, enter <http://192.168.1.156:8099/wap.html> in the address field, and then click “ENTER.”
3. A login interface will automatically appear; enter the username and password in their respective fields, and then click “login.” The “username” and “password” fields should be left blank if the password for the DVR has not been set; if a password for the DVR system **has** been enabled, the username and password entered on the mobile phone Internet browser should be the same as those used to enter the DVR system from a local computer.



4. After logging in to the system successfully, a settings page will appear. From this page, users can choose the channel to monitor, the image size, and the refresh rate. Click “OK” for the settings to take effect.
5. At this point, the mobile phone should be displaying the video from the selected channel. The image will automatically refresh in several seconds if a refresh rate was selected on the settings page. If the manual refresh mode was selected, the video will not refresh until the user clicks “refresh.” The channel being monitored, the image size, and the refresh rate are can only be set or modified on the settings page. To adjust them, click “Return” to reconfigure the parameters.



**Note:** It is only possible to monitor one channel at a time. To view another channel, press “return” and choose another channel number in the settings page.

## 8. Mobile Phone Support

This DVR device can transmit live feed from the CCTV cameras to your mobile phone, so that you can have ‘on the go’ access to your surveillance system from virtually anywhere. To view, you must install a mobile operating system specific program into your mobile. The mobile programs are located on the included CD, or downloaded via iTunes for the Iphone mobile. In iTunes, please search for “MobileEye+” (quad view). Please see the instruction manual for your mobile to install the program. Currently, there are a limited number of phones that are

### **Note:**

1. Prior to using this feature, you should apply for an Internet connection service for your mobile phone, such as 3G or 2.5G. Please contact your mobile service provider for details.
2. Split mode and playback of recorded files is not available at the moment.
3. You can watch four live feed channels through “MobileEye+” at a time with Google Android and Iphone Mobile

supported: Google Android-and Apple Iphone.

### 8.1 Apple iPhone

The Apple iPhone application, like all iPhone applications, needs to be downloaded directly from the iPhone App Store. Open iPhone APP store, search for “MobileEye+” (quad view), they are free applications.

#### 1) “MobileEye+” installation

According to the method of the following figures (Figure 1~Figure 6) showed. Open the iPhone App store “”, touch “” and search for “MobileEye+”. Press “” to the next window, select “MobileEye+” to the window of installation. Then press “” to change the icon to “”. Press “” to the next window, and enter the password for a registered Apple iTunes

account, and press “OK” (Users without an iTunes account will need to register for one before they can download applications). After entering the password, the screen shown in Figure 5 will then appear.

“Loading”: this indicates that the “MobileEye+” software is downloading. When the “Loading” process bar displays a “Loading” status, the “MobileEye+” software has finished installing.

After installing “MobileEye+”, it will appear “MobileEye+” icon on the application software (shown as Figure 6).

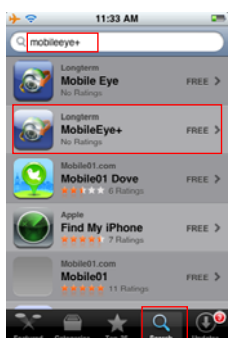


Figure 1



Figure 2

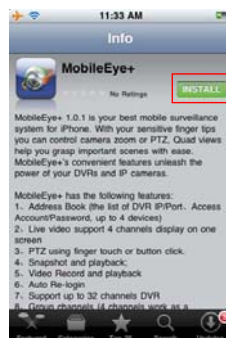


Figure 3

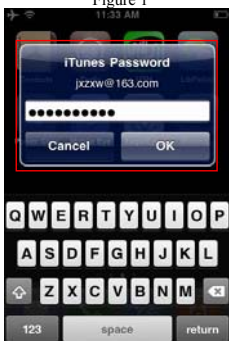


Figure 4

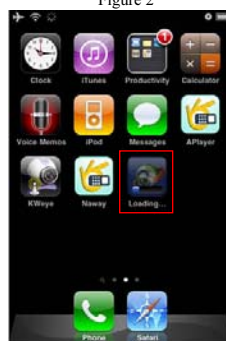


Figure 5

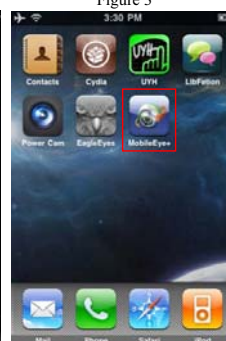


Figure 6

## 2) How to use “MobileEye+”:

- ①. Click the “MobileEye+” icon to open the program. Set up the device (DVR) by “Loading” as figure 7. Click the “Add” button to add devices. On the window of device information to set up the DVR with “Device Name”, “Device IP”, “Device port”, “User Name” and “Password”. Click “Save” to save, and click “Devices” to return to the interface of “Devices”.



Figure 7

- ②. There are two ways to view the live feed from the DVR on the screen: by IP address (or DDNS) and by Auto ID.

a. **By IP address (or DDNS)**

After entering the Settings menu, the following fields will need to be completed:



**Device Name:** The device ID number of the DVR. User can enter the menu “System Settings—System—User—Device ID”, and the interface includes “device ID”.

**Device IP:** The public IP address or dynamic domain name of the DVR.

**Device Port:** The server port of the DVR for remote access viewing via mobile phone, the default is “10510”.

**User name:** The user name set for entering the DVR system.

**Password:** The password set for entering the DVR system.

Click “Save” to save.

b. **By Auto ID**

After entering the Settings menu, the following fields will need to be completed:





Select “Auto ID”, “✓” indicates it is enabled.

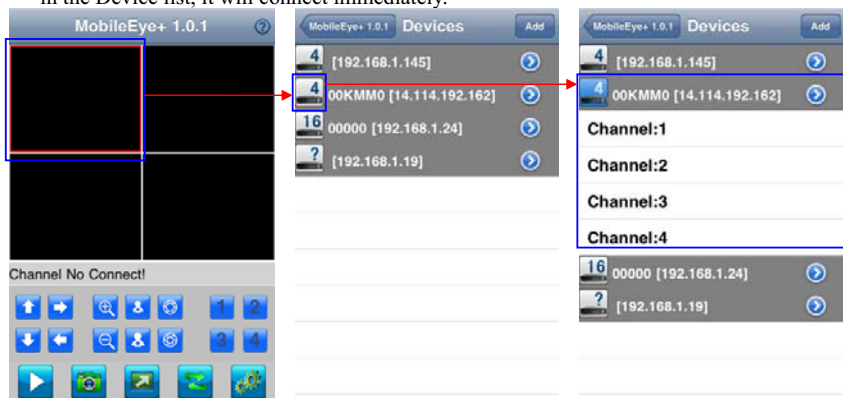
**Device Name:** The device ID number of the DVR. User can enter the menu “System Settings—System—User—Device ID”, and the interface includes “device ID”.

**User name:** The user name set for entering the DVR system

**Password:** The password set for entering the DVR system.

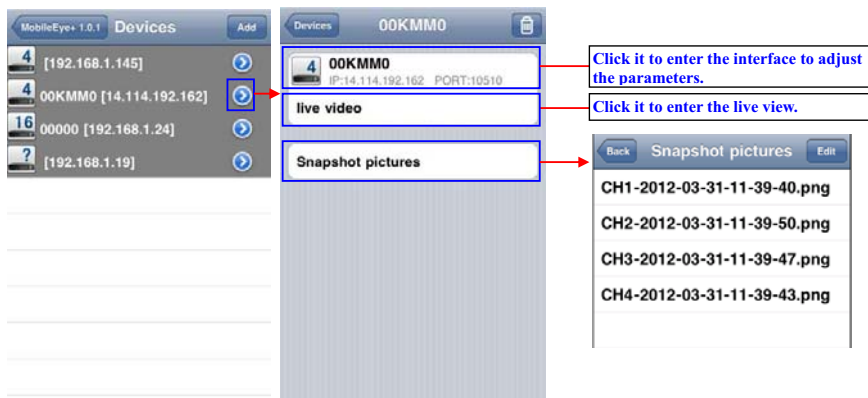
Click “Save” to save.

- ③. Move the red frame cursor to one of the quad screen, and click to select one of the channels in the Device list, it will connect immediately.



That is you can select 4 channels from different Device List (DVR). User can add four devices at most for free.

- ④. Double click the screen, it will enlarge the selected channel, and back to quad view if click again.
- ⑤. On the interface of “Devices”, user can edit the parameters of one device, click “Edit” to the next interface as below. Click “Remove” to remove the information of the current device. Click “Snapshot pictures” to the interface as below. Click one on the list to see the picture. And click “Edit” to remove the files user wanted to.



- ⑥. For PTZ operation, move the red frame cursor to one of the quad screen which connected to the PTZ camera, using the following icons to control PTZ.



PTZ direction controls: up, down, left, right.



PTZ lens controls: zoom in/zoom out, focus+/ focus-, iris+/ iris-.

#### Other icons as below:



Use the numbers to select the live view channel to display.



Play/Stop button.



Capture: to capture a frame of the video stream as a still photo.



Enlarge the selected channel, and back to quad view.



Device set up, you can set up Devices (DVR) unlimitedly.




Click it to enter the “help” interface of this software information.

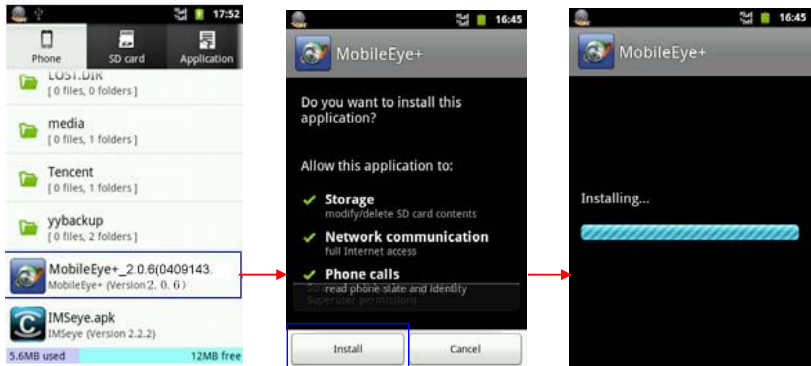
## 8.2 Android Mobile

The software for the android mobile phone is named “MobileEye+” (quad view).

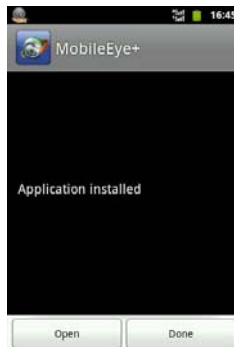
### 1). Install MobileEye+

Please go to the android software market  to search for “MobileEye+” and install it. Or from the installation CD, copy the setup software “**MobileEye+\_2.0.9.apk**” to user’s Android phone or to SD card.



Open your “**File Manager**” in android phone and find the file “**MobileEye+\_2.0.9.apk**” in your android phone memory or SD card. Click “**MobileEye+\_2.0.9.apk**” to install the software as below.

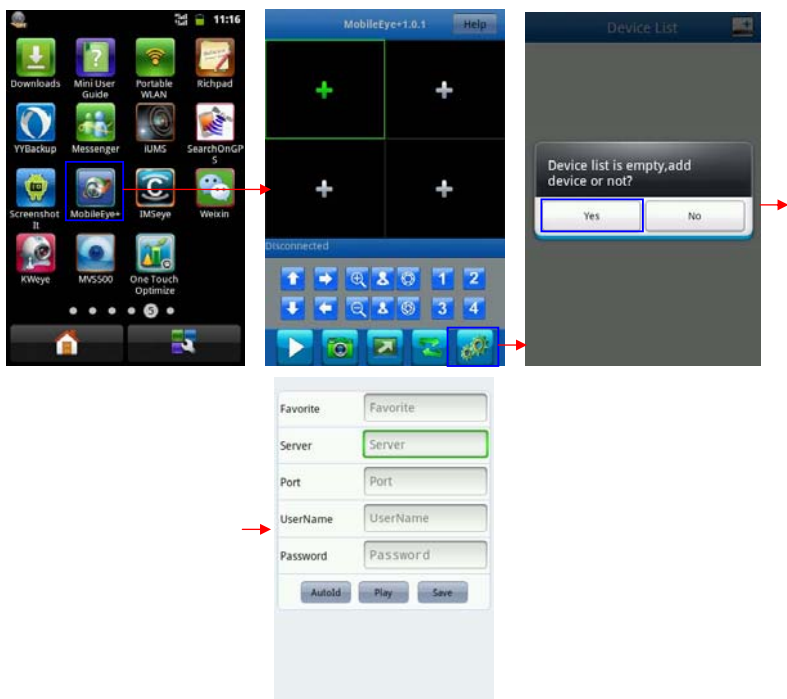


When the application has finished installing, the phone will display the following screen.



## 2) How to use “MobileEye+”:

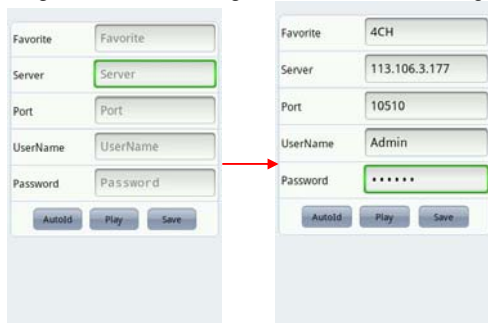
- ①. Click the “MobileEye+” icon to open the program. Set up the device (DVR) by  as follows. First, user needed to add devices. On the window of device information to set up the DVR with “Favorite”, “Server”, “Port”, “User Name” and “Password”. Click “” to save.



- ②. There are two ways to view the live feed from the DVR on the screen: by IP address (or DDNS) and by Auto ID.

a. By IP address (or DDNS)

After entering the Settings menu, the following fields will need to be completed:



**Favorite:** Saves settings for future usage.

**Server:** The public IP address or dynamic domain name of the DVR.

**Port:** The server port of the DVR for remote access viewing via mobile phone, the default is “10510”.

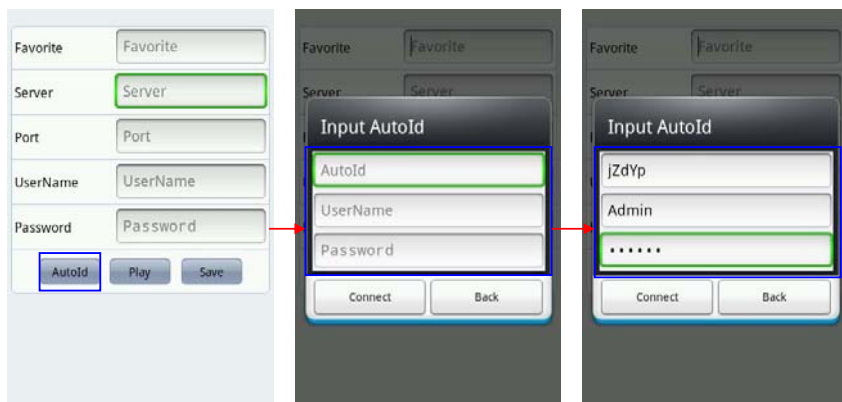
**User name:** The user name set for entering the DVR system.

**Password:** The password set for entering the DVR system.

Click “**Save**” to save.

#### b. By Auto ID

After entering the Settings menu, the following fields will need to be completed:



Click “**AutoId**” to the window to set up parameters.

**AutoId:** The device ID number of the DVR. User can enter the menu “System Settings—System—User—Device ID”, and the interface includes “device ID”.

**User Name:** The user name set for entering the DVR system.

**Password:** The password set for entering the DVR system.





Click “**Connect**” to return to the main screen to connect the channel.

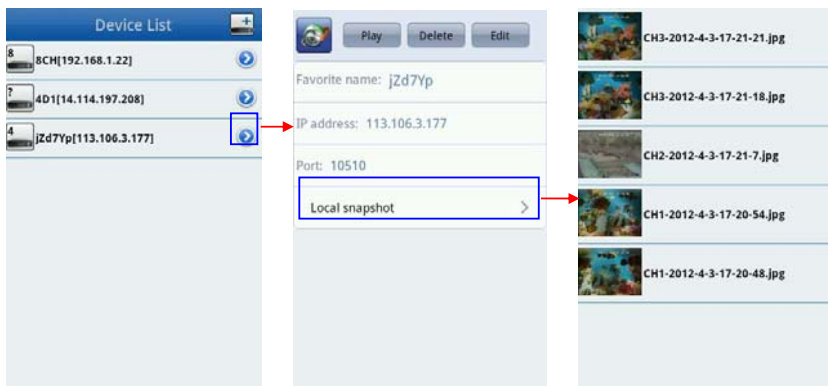
- ③. Move the green frame cursor to one of the quad screen, and click to select one of the channels in the Device list, it will connect immediately.



That is you can select 4 channels from different Device List (DVR). User can add four devices at most for free.

- ④. Double click the screen, it will enlarge the selected channel, and back to quad view if click again.

- ⑤. On the interface of “Device List”, user can edit the parameters of one device, click “” to the next interface as below. Click “” to enter the interface to adjust the parameters. Click “” to enter the live view. Click “” to remove the information of the current device.



Click “**Local snapshot**” to the interface as above. Click one on the list to see the picture.

- ⑥. For PTZ operation, move the red frame cursor to one of the quad screen which connected to the PTZ camera, using the following icons to control PTZ.



PTZ direction controls: up, down, left, right.



PTZ lens controls: zoom in/zoom out, focus+/ focus-, iris+/ iris-.

**Other icons as below:**



Use the numbers to select the live view channel to display.



Play/Stop button.



Capture: to capture a frame of the video stream as a still photo.



Enlarge the selected channel, and back to quad view.



Device set up, you can set up Devices (DVR) unlimitedly.



Click it to enter the “help” interface of this software information.

# Troubleshooting

**This basic troubleshooting guide will help to identify general malfunctions and Disabler instructions for quick resolution of these problems.**

If the failure or malfunction cannot be resolved by following these instructions, please contact a qualified technician.

## **1. The DVR is not working after startup. What happened ?**

- Check the adapter input – are all of the input cables connected properly?
- Check the power cord; is it properly connected to the power source?
- Check the on/Disable switch – is it turned on?
- Check the upgrade procedure.
- Check the main board of the DVR – do all of the indicators indicate that the settings are correct?

## **2. What should be done if the DVR is rebooting automatically or has stopped midway through starting up?**

Check for the following problems:

- Unstable or low input voltage.
- The connection to the hard disk drive is unstable or dysfunctional.
- The power supply is insufficient.
- Excessively high or low temperature, too much dust, or other physical factors that could affect the DVR's ability to operate.
- The motherboard is not well-connected with other boards.
- The hardware of the DVR is defective – take the device to a certified technician to have it examined.

## **3. What if there is no output of single-channel, multi-channel or all-channel video?**

- Check the adapter of the camera to make sure it is securely connected.
- Check the cable for connecting video input/output in the back panel of DVR to make sure it is securely connected.
- Insert the video source directly into the display device and check if the video source is causing the problem.
- Check the brightness of the picture and restore the original default setting.
- Check to see if there is no video input signal or if the video input signal is too weak.
- Make sure the display settings have been configured correctly.
- The hardware of DVR could be defective – take the device to a certified technician to have it examined.

4. **What if the DVR cannot record after startup and the interface is showing " "?**
- Make sure power adapter is a DC-12V.
  - Make sure HDD has been properly formatted.
  - Make sure the power and data connection cables of the HDD are connected and undamaged.
  - The HDD could be defective – test it with another device to find out.
  - The SATA port may be not working – have a qualified technician examine it to find out.
5. **What if the DVR is having problems with real-time images, such as serious color or brightness distortion?**
- If PAL or NTSC has not correctly selected on the BNC output, the images will be in black and white.
  - Make sure the DVR is compatible with the monitor being used.
  - Make sure the video transmission distance is not too far.
  - Try manually adjusting the settings of the DVR color, brightness, and so on.
6. **What if there is no sound?**
- Check that the sound box or speaker functions. Also check for possible short-circuiting problems.
  - The audio source may be connected to the video channel. Select the full-screen mode to check.
  - The hardware of DVR could be defective - take the device to a certified technician to have it examined.
7. **What if the sound cannot be heard during playback?**
- There may be a settings problem: open the DVR settings menu and the computer's audio settings menu, and check the settings.
  - Check the audio to see if it is set as "closed" in the playback interface.
8. **What if the system time is not correct?**
- The wrong setting might be selected. Correct the time, and make sure to click " " to confirm the changes.
  - The battery may not be connected properly.
  - The battery might be dead, in which case, change the battery.
9. **After right-clicking "Stop recording" on the toolbar, the recording does not stop. How do I stop recording?**
- The "Stop recording" function can only be executed by right-clicking during Manual recording.
  - If you want to stop recording, please set the time is not recording.
10. **What if the motion detection function is not working?**
- The setting of motion detection area may not have been set correctly.



- Check the sensitivity of the motion detector. The sensitivity level may be too low.

#### 11. What if the remote control does not work?

- The address of remote control may be incorrect.
- The distance from the remote control to the device may be too far or the angle may be too large.
- Check the remote control batteries have not been drained.
- Make sure that the remote control and the front panel of the DVR are not damaged.

#### 12. Why I can't log in to the WEB?

- Check to make sure that the computer has been connected to the Internet properly. Check if the "LINK" or "100M" LED is displayed normally on the panel; use ping xxx.xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly.
- It is recommended that you use either Windows XP or Vista as the operating system, and Internet Explorer 6.0 or Internet Explorer 7.0 as the Internet browser with this DVR.
- The ActiveX controls may have been blocked. Manually reinstall the ActiveX controls.
- The video card driver may be out of date; install DX8.1 and upgrade the video card driver.

## Appendix 1. Setting up Internet Connections for Remote Access

This section will explain the ways to connect your DVR to the internet using static and dynamic IP addresses. To connect to the internet, you will need to use a modem and a router.

As a network device, your DVR should have its own address called an Internet Protocol (IP) address. This address can be used by other network devices (ie. computers) to access the DVR to remotely monitor the CCTV cameras and change settings. You can also get a static IP address from your internet service provider – this way, you will always have the same address at all times, though this method is rather expensive. If you have a static IP, enter your static IP in the DVR settings and the router will connect your DVR to the Internet.

You may alternatively choose to use a dynamic IP, which means that the IP address of your DVR may frequently change, but it will still be possible to find your DVR from remote computers, by using DDNS (Dynamic Domain Name System), which dynamically assigns IP addresses to the DVR. This functionality allows the DVR to automatically update its IP address to the DDNS Server each time its Dynamic IP address changes. Your DVR is equipped with the DDNS functionality and has a list of related domain names through which you can acquire an IP address. (See [Section 5.2.6](#) for details.)

Set up an account with a DDNS service provider, and with the account information available, log in to the router and go to the DDNS page. Select the address of your service provider and type in the account password. After saving this information, the router will send IP updates to your DDNS account and the connection will always be forwarded to you current IP.

## Appendix 2. DVR-Compatible Hard Disk Drives

The following is a list of Hard Disk Drives (HDDs) tested and found to be compatible with the DVR. Before using an HDD not found on this list, it is extremely important to test it for compatibility first.

Brand name	Model Number	Size/Capacity(GB)	Drive Type
WD	WD7500AAKS	750	SATA
WD	WD10EACS	1000	SATA
WD	WD10EARS	1000	SATA
WD	WD5000AADS	500	SATA
WD	WD20EVDS	2000	SATA
Seagate	ST31000341AS	1500	SATA
Seagate	ST31000524AS	2000	SATA
HITACHI	HDS721010CLA332	1000	SATA
Seagate	ST3500418AS	500	SATA
Seagate	ST31000340AS	1000	SATA
Seagate	ST31000528AS	1000	SATA
Seagate	ST2000VX000	2000	SATA
Seagate	ST2000DM001	2000	SATA
Seagate	ST2000DL003	2000	SATA
Seagate	ST3500312CS.	500	SATA
Seagate	ST1000VX000	1000	SATA
WD	WD10EURX	1000	SATA

## Appendix 3. DVR- Compatible Portable USB DVD Recorders

The following is a list of portable USB DVD recorders tested and found to be compatible with the DVR. Before using a USB DVD recorder not found on this list to back up data from the DVR, it is extremely important to test it for compatibility first.

- Pioneer DVR-XD09C
- LITEON eNAU508
- SAMSUNG SE -208AB/CHBS

**Note:** User had better to connect the USB DVD recorder to the USB port on the back panel of the DVR when backup.

## Appendix 4. DVR- Compatible Portable SATA DVD Recorders and DVD Disks (Please take actual machine model as quasi, and only for 8-CH DVRs and 16-CH DVRs)

The following is a list of portable SATA DVD recorders and DVD±RW/DVD±R disks tested and found to be compatible with the DVR. Before using a SATA DVD record or a DVD±RW/DVD±R disk not found on this list to back up data from the DVR, it extremely important to test it for compatibility first. Suggested that users use a DVD+RW or DVD+R disk to backup.

Brand NAME	Model	Media DVD Disks
Sony	AD-7260S	<b>DVD+R:</b> Mitsubishi Kagaku Media Verbatim(4.7G/16X), RiTEK(4.7G/16X), TDK(4.7G/16X),Sony(4.7G/16X); <b>DVD-R:</b> MITSUBISHI(4.7G/16X), Sony(4.7G/16X), RiTEK(4.7G/16X), TDK(4.7G/16X); <b>DVD+RW:</b> MITSUBISHI (4.7G/1-4X), RiTEK(4.7G/4X), TDK(4.7G/1-4X), Verbatim;
Pioneer	DVR-219CHV	<b>DVD+R:</b> Mitsubishi Kagaku Media Verbatim(4.7G/16X), TDK(4.7G/16X), Sony(4.7G/16X); <b>DVD-R:</b> TDK(4.7G/16X), RiTEK(4.7G/16X); <b>DVD+RW:</b> TDK(4.7G/1-4X),Verbatim, MISUBISHI(4.7G/1-4X), RiTEK(4.7G/4X);
Sony	AD-7280S	<b>DVD+R:</b> Mitsubishi Kagaku Media Verbatim(4.7G/16X), RiTEK(4.7G/16X); <b>DVD-R:</b> MITSUBISHI(4.7GB/16X), TDK(4.7G/16X), RiTEK(4.7G/16X); <b>DVD+RW:</b> TDK(4.7G/1-4X),Verbatim, MISUBISHI(4.7G/1-4X), RiTEK(4.7G/4X);

**Note:** If you use DVD-R discs, please be sure to wait for the burning to completely finish, then take out the disc. Wait until the Disk Activity Indicator LED is off before ejecting the disk.

## Appendix 5. DVR- Compatible Portable Wireless Mouse

The following is a list of wireless mouse tested and found to be compatible with the DVR. Before using a wireless mouse not found on this list, it is extremely important to test it for compatibility first.

- Loditech M215
- Loditech M235
- RAPOO 7100

## Appendix 6. Accessing the DVR via Mozilla Firefox

1. First, install Firefox on Windows(This document will use Firefox 3.6 as an example )
2. After installing Firefox, search for the “IE TAB” add-on for Firefox; this file is named “ie\_tab\_plus-1.95.20100930-fx+sm (IE Tab Plus (FF 3.6+).xpi”. **(This file can be downloaded from the Mozilla website)**
3. To install: Open Firefox, then click “Tools”, and select “Privacy” and a dialog box will appear. Then choose tab which is named “Get Accessory Discreteness”, and copy and paste

“ie\_tab\_plus-1.95.20100930-fx+sm (IE Tab Plus (FF 3.6+).xpi)” into the address field. A dialog box will prompt you to install or cancel the program; choose “Install immediately.” After installing the program, restart Firefox Browser.

4. Open Firefox and enter the DVR IP address in the address field.
5. Right-click at blank, select “Use IE TAB Plus to play this Page”, and choose “Switch browser engine”. The DVR can now be connected successfully.



## Appendix 7. Accessing the DVR via Google Chrome

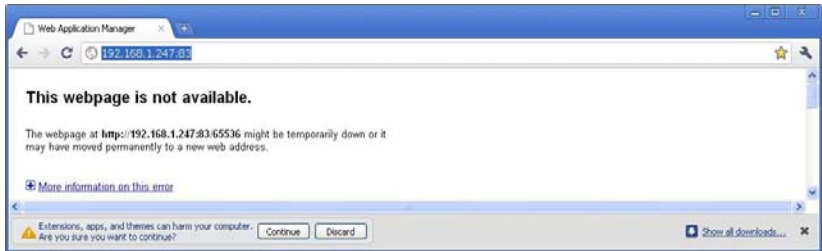
1. First, install Google Chrome on Windows (this manual will use Chrome version 7.0.517.36 as an example).
2. After installing Google Chrome, search for the “IE TAB” Chrome add-on; this file is named “extension\_1\_4\_30\_4.crx”. **(This file can be downloaded from the Chrome Web Store)**
3. Open Chrome, enter the IP address of the DVR into address bar, and the following screen will appear.



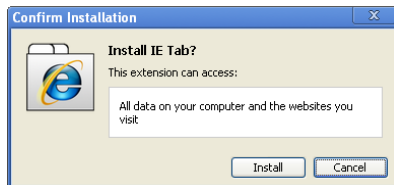
4. Drag the add-on into the browser interface and the following screen will appear.



5. Select “Allow” to download multiple files and the following screen will appear.




6. Select “Continue” to continue installing extensions and the following screen will appear.

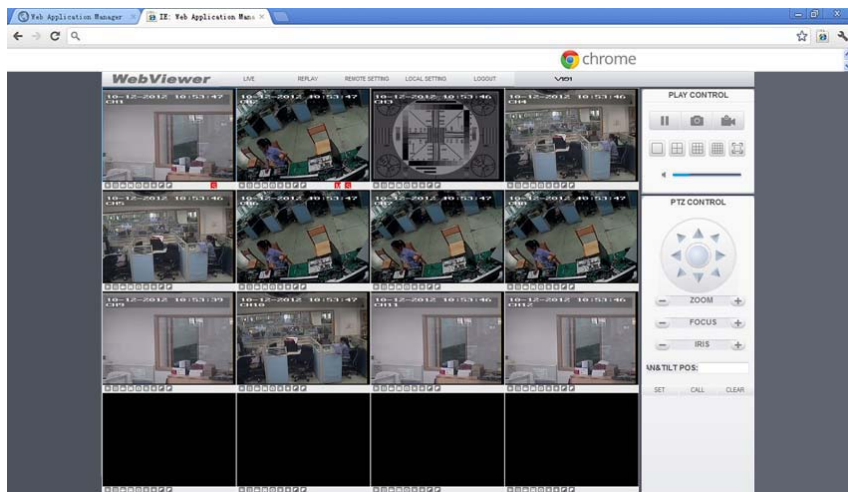


7. Click “Install” and the following screen will appear.




**Note:** If the web page still does not open, press the “” icon on the right of the address field to display this page in an IE based-tab.

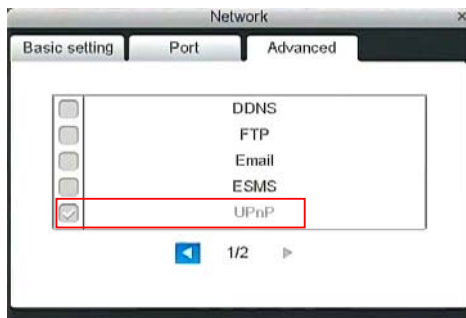
8. Fill in your correct user name and password to log in. and the following screen will appear.




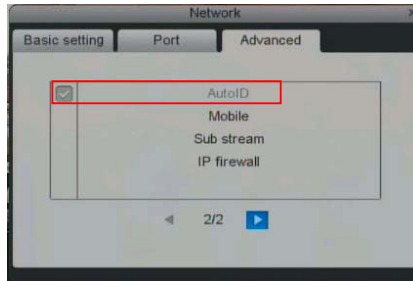
## Appendix 8 How to Use Auto ID-"Plug n play" Quick Guide

The Auto ID is used for connecting the DVR to an Internet browser interface. For detailed instructions, refer to the following instructions.

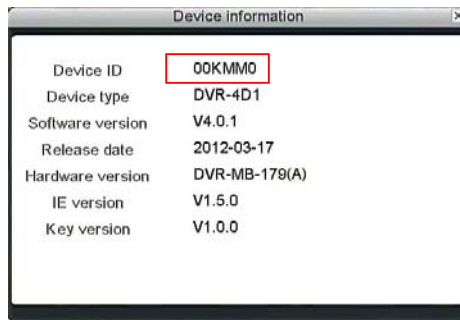
1. Regarding use of the router to browse the Internet, first you should have the transmit codex of the router's port already mapped. Alternatively, open the main menu, click “Network”, then click “Advanced” and select the UPnP, “” indicates the selected option is enable. And the router will automatically map the port.



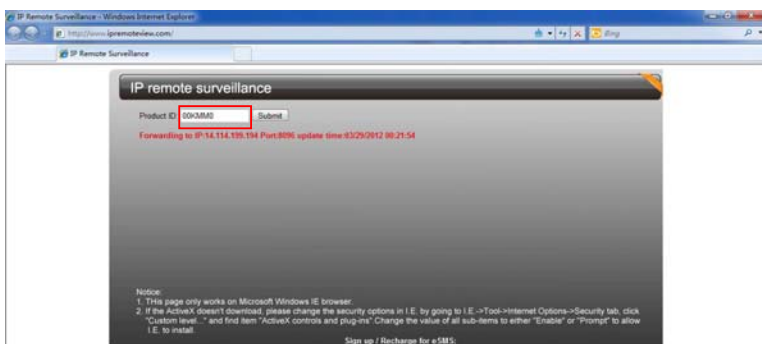
2. Then, open the main menu, click “Network”, then click “Advanced” and select “AutoID”, “” indicates the selected option is enabled.



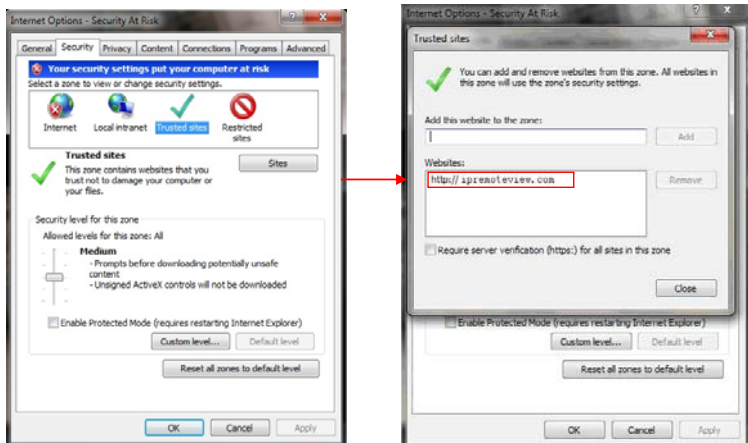
3. The ID number of each product is set in the factory. From the toolbar, click “Setup”—“Information”, and select “Device Information”. The screen will display the user management menu, and the device ID number will appear at the top of the screen (as in the following illustration):



4. Once the network is connected, enter “<http://www.ipremoteview.com> or <http://www.ipremoteview.cn>” in the address field of the Internet browser. Then enter the DVR ID number into the “Product ID” field, as shown in the following screenshot.



**Note:** If after following the preceding instructions the login page does not work or the Auto ID function fails, try the following steps to add the website to the zone:



5. After the connection has been established, the Web Application Management (see the following figure) will appear. Fill in the right user name (default “Admin”) and password (default “888888”) if the password is enabled, check the “Open Preview” to be able to view all cameras automatically after the login; click [LOGIN] to login to the system.







**Note:** Refer to [Section 6.4 Control Download and Installation](#) for instructions on what to do after logging in here.

### **Statement**

- If there is any doubt or disputability regarding information in this manual, you can call our company for clarification.
- This manual provides reference information for several types machines; contact our customer service department if you have any questions or encounter any difficulties using your device;
- There maybe some differences between the descriptions provided here and the actual devices, as our products are constantly developing and upgrading. We apologize if this manual does not contain all of the latest updates.

MC-862 (A-4)